Reconnaissance Data Collection Report

Tulsa County JP 32728(04)

I-44 Corridor

From I-244 Junction East to the Arkansas River

6450 South Lewis, Suite 300
Tulsa, Oklahoma 74136
www.GarverUSA.com

November 2016

EC-1780

Tulsa County

EC-1780 - I-44 Corridor from I-44 Junction, East to the Arkansas River

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Tulsa County– I-44 Corridor from I-244 Junction, East to the Arkansas River
EC-1780

Reconnaissance Data Collection Executive Summary

Reconnaissance data collection was performed for a 2.91-mile section of I-44 in Tulsa County. The project limits begin just east of the I-44/I-244 interchange, extends 2.91 miles east to the Arkansas River, includes 450-750 feet on each side of the existing I-44 centerline with additional area at the Highway 75 interchange, and includes a 1.4-mile segment of Highway 75 with a width of 600 feet. The study footprint consists primarily of commercial and residential development, with most of the residential development occurring at the west end of the study area. The Arkansas River occupies the east end of the study area. Additional undeveloped land occurs within and adjacent to portions of the study area, especially in the south end of the study area along Highway 75.

As described in Section 3, the Riverside Trail and Bales Baseball Complex are two parks located within the study area. The Riverside Trail, which crosses through the study area, is located between the Arkansas River and Riverside Drive at the east end of the study area and was improved with LWCF funds. A portion of Bales Baseball Park, which is located southwest of the I-44/Hwy 75 interchange, occurs within the study area and is owned by the City of Tulsa Parks Department. Correspondence with the Oklahoma Department of Tourism, State Parks confirmed there are no additional Section 6(f) properties within the study area. Richard Lloyd Jones Jr. Airport, a publically owned airfield, is located approximately 2.3 miles southeast of the I-44/Hwy 75 interchange. The Tulsa Sapulpa Union Railroad (TSU; Class III Railroad) crosses through the study area at the west end of the site. Additionally, both the Union Pacific Railroad (UP; Class I Railroad) and the Tulsa Sapulpa Union Railroad (TSU; Class III Railroad) utilize the same line that crosses the study area near the east end of the project location.

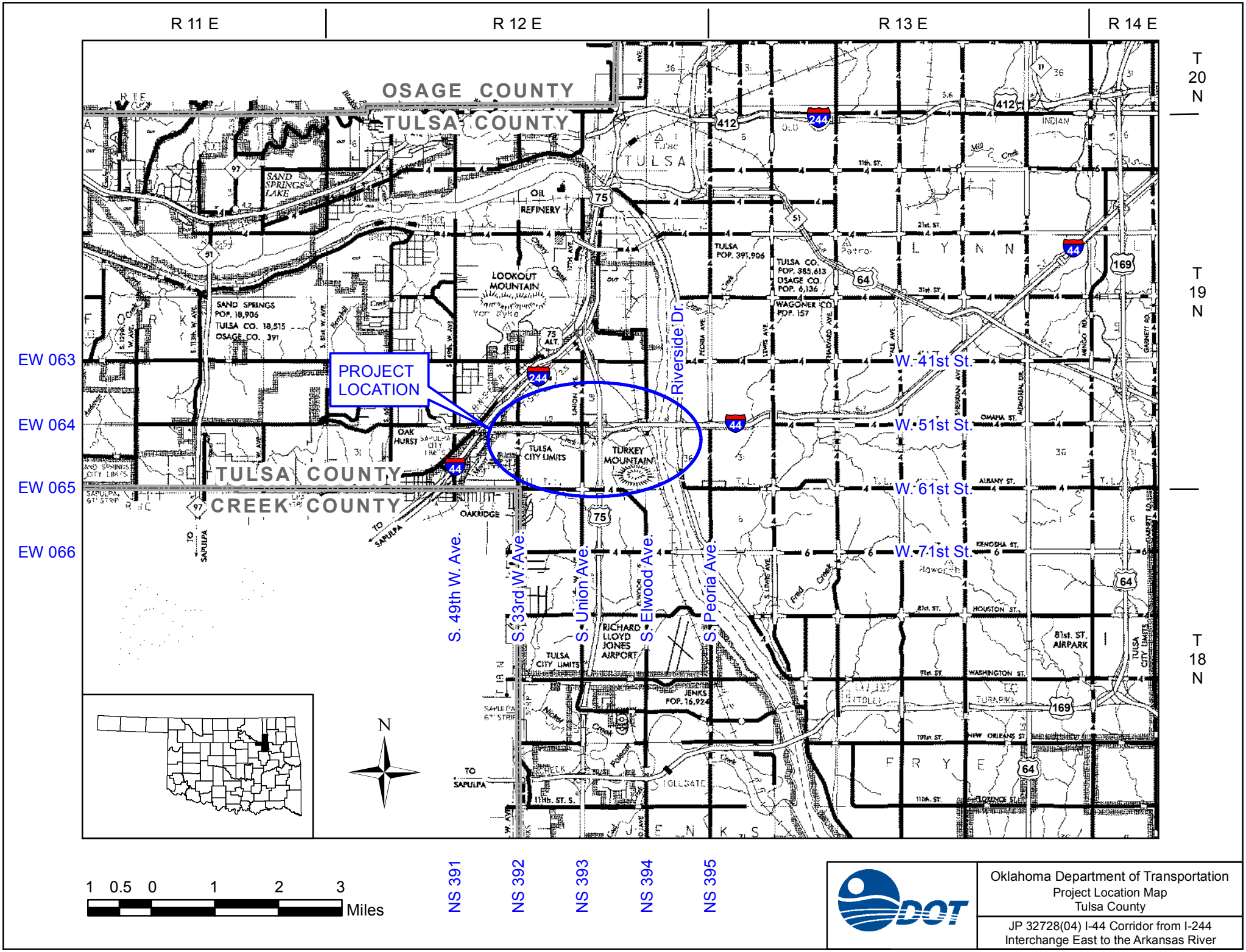
There are no known cultural resources within the I-44 Corridor study area with moderate or high potential for NRHP eligibility.

Hazardous materials sites and regulated petroleum storage tanks are located throughout the I-44 Corridor study area. There are 22 hazardous materials sites within or adjacent to the study area and 6 hazardous waste sites outside of, but within the ASTM search radii of, the I-44 Corridor study area. There are 12 storage tank sites within or adjacent to the study area, 3 of which are LUST sites, and 2 storage tank sites within 1/8 mile of the study area. One additional storage tank site containing petroleum products was identified through field reconnaissance. Based on the OCC Oil and Gas Division well database, 14 well sites are located within or immediately adjacent to the study area and 13 well sites are outside of the study area but within a 1/8 mile of the study area.

Potentially jurisdictional natural resources in the study area include portions of 5 watercourses and 6 wetlands. Jurisdictional waters in the study area include the perennial Arkansas River and Mooser Creek. The Arkansas River is an impaired waterbody for *Enterococcus* bacteria,

cadmium, and for turbidity. The Total Maximum Daily Load (TMDL) value for Enterococcus has been established at 35,669 CFU/day for the Arkansas River. Mooser Creek is an impaired waterbody for *Escherichia coli* and for warm water aquatic habitat. In addition, 1 USGS-mapped intermittent stream and 2 field-identified ephemeral to intermittent watercourses, which are potentially jurisdictional, occur within the study area and include unnamed tributaries to Mooser Creek. Garver considers there to be 2 NWI-mapped wetlands that are potentially jurisdictional due to their hydrologic connections to the Arkansas River. Field reconnaissance identified 2 additional wetlands in the study area that are considered potentially jurisdictional due to their hydrologic connections to USGS-mapped streams. Large portions of the study area adjacent to Mooser Creek and the Arkansas River are mapped FEMA floodplains associated with these watercourses and include Floodway and Zone AE of the 1% Annual Chance Flood Hazard. Zone AE floodplains do not allow any rise of the base flood elevation. Threatened and endangered species listed for the study area in Tulsa County include the Interior Least Tern, Piping Plover, Red Knot, American Burying Beetle, and Northern Long-eared Bat. No designated critical habitat for these species is located within the study area. The study area falls within the Upper Arkansas River watershed (a HUC10 watershed), which is within a federally-listed aquatic dependent species watershed for the Interior Least Tern. Additionally, the study area contains the Arkansas River, which is an occupied water body for the Interior Least Tern. The Interior Least Tern and the Bald Eagle were listed by the Oklahoma Natural Heritage Inventory database for occurrences in the vicinity. Suitable habitat for the Bald Eagle and the Interior Least Tern is present in the study area along the Arkansas River.

Geo-Referenced Graphics



Oklahoma Department of Transportation
Project Location Map
Tulsa County

JP 32728(04) I-44 Corridor from I-244 Interchange East to the Arkansas River

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
11/1/2016

0 200 400 600
SCALE

PARCEL #	OWNER
001	LINPEN INVESTMENTS LLC
002	ADETULA, AMOS OLATUNDE
003	GLEANOR MISSIONARY SOCIETY INC
004	IGLESIA OESTE ASAMBLEA DE DIOS INC
005	BERCHER, TRAVIS
006	MORENO, ANDREW A IV
007	LUGINBILL, SANDRA S
008	MILLER, MATTHEW O & KRISTIE G
009	ABEL, MARY ANN
010	ROWE, JAMES
011	JOHNSON REAL ESTATE PROPERTIES LLC
012	DAVIS, CATHY LEE
013	ELMORE, JESSICA L
014	TUCKER, RAYMOND L & EMILE D
015	BLAKE, KEVIN
016	KEMPER, PAULA K
017	CARTER, CHRISTOPHER M & MADELINE P
018	WALLS, KRISTIN C R
019	WHEAT, LAWRENCE WESLEY & ROSA MAE TTEES
020	DENNEY, CHARLES JASON
021	FIELDS, BOBBY LAWRENCE AND SANDRA K

PARCEL #	OWNER
022	BRUDER, DANIEL LLOYD
023	RETAIL BUILDINGS INC C/O JACOBI & ASSOC
024	CITY OF TULSA
025	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
025A	LUGINBILL, SANDRA S & DELBERT B
026	LUGINBILL, SANDRA S
027	LUGINBILL, SANDRA S
028	LUGINBILL, SANDRA S
029	VANN, JAMES ELMER
030	GRODEN, JAMES E AND ROZENA R
031	STACY, SHEILA JEAN
032	OAKLEY PROPERTIES LLC
033	OAKLEY PROPERTIES LLC
034	REED, SHERRY KATHLEEN
035	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
036	GLENCO INVESTMENTS LLC
037	LUGINBILL, SANDRA S
038	SHORES, ORVILLE DUNCAN-DONNIE LLC
039	BRYAN, PATRICK S AND JAMIE D
040	ROSAS, ALICIA
041	MEDINA, ABEL AND ANITA

PARCEL #	OWNER
042	CLANTON, JIM D AND TERI D
043	KEMPER, PAULA K
044	HALL, JERRY L & SHANE LOWE
045	BLUESTONE PROPERTIES LLC
046	WEST, JANET SUE TTEE MARGARET LLOWERY FAMILY TR
047	CITY OF TULSA
048	SALDEEN, LORI A
049	SMITH, GENE AND SARA
050	ROGERS, GARY W AND DEBORAH L BROWN
051	MAHONEY, J MELINDA
052	WILLIAMSON, BILL T C/O ORVILLE JR & MARIA WILLS
053	CITY OF TULSA
054	TULSA COUNTY
055	TULSA COUNTY
056	TULSA COUNTY
057	TULSA COUNTY
058	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
059	EWERS, JAMES F III TRUSTEE JAMES F EWERS III TR
060	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
061	CLARK CHILDREN TRUSTS

PARCEL #	OWNER
062	CALVERT, DANIEL E & OLETA CO-TRUSTEES DANIEL E & OLETA CALVERT REV TRUS
063	TARIAH, SOLOMON B
064	TARIAH, SOLOMON B
065	TARIAH, SOLOMON B
066	POLITE, VERDA MAE
067	TARIAH, SOLOMON B AND YEVETTE M
068	BELL, GARFIELD AND ROSCOE JONES
069	BELL, GARFIELD AND ROSCOE JONES
070	GILLIAM, EARL R AND LINDA J
071	BRANTLEY PROPERTIES LLC
072	ASPEN LAND & EXPLORATION COMPANY
073	DENNEY, DAN P
074	BOYLE, GUY I AND CYNTHIA L
075	REESE, JAMES M AND REBECCA R
076	FITCH, STEPHANIE
077	MARTIN, C G COMPANY INC
078	MARTIN, MAXINE L TRUSTEE
079	K & JR LLC
080	BRAMLETT, DOROTHY C/O KENNY RUSSELL
081	K & JR LLC

PARCEL #	OWNER
082	K & JR LLC
083	BRADY, PATRICK B
084	ROBERTS, ERNIE L & WILMA J
085	ROBERTS, LARRY
086	CLARK, JASON RAE
087	MCDONALD, IRENE
088	SHAHIN, WALTER & CAROL
089	ABEL, ZOE M
090	SALIMI, SAJID S INC
091	SALIMI, SAJID S INC
092	ADAIR, TODD DAVID
093	MALACHI MANAGEMENT CORP
094	KNOWLTON TRUST
094A	CITY OF TULSA
095	MALACHI MANAGEMENT CORPORATION
096	MALACHI MANAGEMENT CORPORATION
097	MALACHI MANAGEMENT CORPORATION
097A	CITY OF TULSA
098	CARBONDALE CHURCH OF CHRIST INC
098A	CITY OF TULSA
099	CARBONDALE CHURCH OF CHRIST INC
100	FORT, MERLIN D AND JOY L
101	BOHLANDER, JOHN P III
102	DUBUC, DOUG C
103	CARBONDALE CHURCH OF CHRIST
104	SAND SPRINGS HOME
105	SCHULTZ, TERRY M
106	STOVER, MARGARET M TTEE ROBERT &
107	CARBONDALE CHURCH OF CHRIST

PARCEL #	OWNER
108	CARBONDALE CHURCH OF CHRIST
109	CARBONDALE CHURCH OF CHRIST
110	CARBONDALE CHURCH OF CHRIST
111	STATE OF OKLAHOMA C/O DEPT OF HWY R/W DIV
112	HOPE, WEALTHIA A
113	OAKLEY, SHELBY D
114	BRANCHCOMB, JIMMY
115	DURBIN, DAVID J
116	DURBIN, DAVID J
117	WAKEFIELD, WILLIAM JR
118	SMITH, JAMES M AND MELINDA K
119	D & P PROPERTIES LLC
120	HARRY LLC
121	GLOVER, WANDA P
122	VENETOFF, RICHARD
123	TOWNES, ROBERT H
124	BROWN, HARLEY L AND BARBARA
125	FARRAN, RANDALL E & BARBARA LYNN
126	LONE WOLF, SARAH JEAN
127	CITY OF TULSA
128	LAWSON, BILLY J
129	COX, TY & ELIZABETH HURFORD
130	JOHNSON, STAN AND CONNIE
131	LEE, LINLY P
132	SHANKS, RONALD A
133	BUNDY, SUSAN J TRUSTEE
134	SELLARS-WILSON, ROXANA K
135	GARRISON, ROBERT F AND SHARON J
136	MORDHORST, DAN D REVOCABLE TRUST

PARCEL #	OWNER
137	MANESS, JO ANNE
138	DAILEY, BETTY R
139	SAVAGE, DAVID JAMES AND LAURA LEE
140	MENDOZA, KYLE M AND REBECCA ANN
141	BRASHEAR, KYLE MANNING TRUST
142	OAKLEY PROPERTIES LLC
143	HERMAN, DARRELL
144	SCOTT, ROBERT E & MARILYN H REV TRUST
145	SCOTT, ROBERT E & MARILYN H REV TRUST
146	SCOTT, ROBERT E & MARILYN H REV TRUST
147	TULSA COUNTY
148	ESTES, RONNIE S & ROBIN L
149	VTR HILLCREST MC TULSA LLC C/O ALTUS GROUP US
150	JOHNSON, GENE A AND WANDA J
151	CROW, KEVIN C AND TAMMY A
152	CARR, BAIRD R AND LAURA L
153	GIVENS, ROCHELLE
154	HERNANDEZ, ANA SANCHEZ & FRANCISCO OCTAVIANO DE LOS SANTOS
155	MCCLANAHAN, RONALD E AND STEPHANIE E
156	PATTISON, RONALD L AND PHYLLIS GAYLE
157	PONDEROSA HOLDINGS LLC
158	CITY OF TULSA
159	PONDEROSA HOLDINGS LLC
160	CITY OF TULSA
161	TULSA CITY COUNTY LIBRARY COMMISSION
163	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
164	STATE OF OKLAHOMA DEPT OF HWY R/W DIV

PARCEL #	OWNER
165	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
166	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
167	PEOPLES BANK
168	TULSA INVESTMENT GROUP IV LP
169	GOODSON, CHARLES M & KAREN L
170	GOODSON, CHARLES M & KAREN L
171	EBERTH INVESTMENTS LLC
172	OGLESBY, RICHARD B AND TERESA L
173	OGLESBY, RICHARD B AND TERESA L
174	KRAMER LLC
175	VANDERPOOL FAMILY TRUST
176	SHORES, ORVILLE DUNCAN-DONNIE LLC
177	VANDERPOOL FAMILY TRUST
178	VANDERPOOL, RUTH ANDNANCY
179	SHORES, ORVILLE DUNCAN-DONNIE LLC
180	CHOJO DEVELOPMENT LLC
181	WHEELER, LANCE A AND STACY L TRUSTEES WHEELER FAMILY REV. TR.
182	WHEELER, LANCE A AND STACY L TRUSTEES WHEELER FAMILY REV. TR.
183	ALBERT, ROMAN M JR AND VIRGINIA K
184	MDM INVESTMENTS
185	SOUTHERN HILLS MANOR INV CORP C/O DARLENE RAY
186	SOUTHERN HILLS MANOR INVESTMENT CORP
187	CITY OF TULSA
188	DEMORE ENTERPRISES OF TULSA, INC.
189	DEMORE ENTERPRISES OF TULSA, INC
190	PATEL, ISHAVERBHAI & SAVITABEN ISHAVERBHAI PATEL
196	CARBONDALE ASSEMBLY OF GOD CHURCH INC

LEGEND

- POWERLINE
- FIBER OPTIC
- GAS LINE
- TELEPHONE UNDERGROUND
- WATER
- OIL LINE
- POWER UNDERGROUND
- SANITARY SEWER
- OVERHEAD TELEPHONE LINE
- EXISTING RIGHT-OF-WAY
- PROPERTY LINE
- DATA COLLECTION AREA
- STREAM FLOWLINE
- TRADEFIXTURE
- UST/AST SITE
- POTENTIAL HAZARDOUS MATERIALS SITE
- LUST/LAST SITE
- WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

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11/1/2016

0 200 400 600
SCALE

PARCEL #	OWNER
161	TULSA CITY COUNTY LIBRARY COMMISSION
162	CARBONDALE ASSEMBLY OF GOD CHURCH
163	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
166	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
191	AVERY BARRON HOLDINGS, LLC
192	CITY OF TULSA
193	REALATION COMMUNITY SERVICES OF OKLAHOMA INC
194	RACETRACK PROPERTY LLC
195	BANNISTER INVESTMENTS LLC
196	CARBONDALE ASSEMBLY OF GOD CHURCH INC
196A	CITY OF TULSA
197	HARRELL, DELMAR J AND DOROTHY M C/O JOE ADMIRE JR
198	ELLIS, JOE R AND KERRI L
199	NOZAK, LINDSAY
200	BEAN, JAMES & TRACY
201	BRYAN, JESSE DALE & ASHLEY MARIE
202	BUMGARNER, NORMA JEAN & DAVID LEE & OMIA SCOT
203	CASTANEDA, FRANCISCO AND SARAH R
204	KLEIN, DAVID H TRUSTEE DAVID H KLEIN TRUST
205	PURZNER, JOHN MICHAEL
206	JOHNSON, WILLIS GRANT AND EVELYN M TRUSTEES
207	CRA HOLDINGS LLC

PARCEL #	OWNER
208	JOHNSON, SYLVIA M
209	MCCOMBS, MARK ALAN AND OKSANA I
210	URIAS, CRYSTAL D
211	HAUCK, ALISSA
212	WOODS, BRITTANY ALISHA & JEFFREY ALAN
213	PENN, A MICHELE
214	P2 EQUITY INC
215	BOLING, PEGGY C
216	JJB PROPERTIES LLC
217	LEGACY FUNERAL HOLDINGS OF OKLAHOMA LLC
218	WHITETREE, MARK
219	DAVIS, BENJAMIN C AND MONICA M
220	CITY OF TULSA
221	MCCOY, SALLY B TRUSTEE SALLY B MCCOY TRUST NO 2 ETAL
222	MCCOY, SALLY B TRUSTEE SALLY B MCCOY TRUST NO 2 ETAL
223	MCCOY, SALLY B AND DONALD B ATKINS TRUSTEES
224	TULSA INVESTMENT GROUP IV LP C/O RYAN LLC
225	STATE OF OKLAHOMA DEPT OF HWYS R/W DEPT
226	LOLLIS, JACK & SUSAN
227	PAREKH, A JASHVANT AND MALTI J AND JASHVANTBHAI
228	CLARY, ARTHUR M SR AND EDYTHE TRUSTEES CLARY TR
229	SOUTHWEST PROPERTIES REALTY

PARCEL #	OWNER
230	CRW PROPERTIES INC
231	PLEASANT PROPERTIES LLC
232	LINC PROPERTIES LLC
233	SHADOWBROOK PROPERTIES LLC
234	RONGEY, PAUL D AND JOHN A SMITH
235	501 S LEWIS LLC
236	QUIKTRIP CORP ATTN TAX DEPT
237	QUIKTRIP CORPORATION ATT: TAX DEPT
238	CITY OF TULSA
239	ASPEN LAND & EXPLORATION COMPANY
240	WEST BANK STORAGE LLC
241	CITY OF TULSA
242	WEST BANK STORAGE LLC
243	BRADY RESIDENTIAL PROPERTIES LLC
244	DEUTSCHE BANK NATIONAL TRUST CO TTEE
245	LAHR, CARL E AND RITA A
246	BERCHER, ANNICE M & RANDY ROBERT
247	BERCHER, ANNICE M & RANDY ROBERT
248	CROSSROADS FULL GOSPEL CHURCH
249	CROSSROADS PENTECOSTAL CHURCH OF GOD INC
250	WAREHOUSE MARKET 51ST & UNION LLC
251	ASPEN SQUARE INC
252	CITY OF TULSA
253	TULSA COUNTY
254	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
255	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
256	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
257	WATTS, ROBERT
258	CITY OF TULSA
259	JANOWSKI, BRADEN S TRUSTEE BRADEN S S. JANOWSKI TR.
260	CITY OF TULSA

PARCEL #	OWNER
261	JOHNSON, WILLIS G AND EVELYN M TRUSTEES JOHNSON TR
262	SMITH, DAVID L AND HOLLIS J
263	CITY OF TULSA
264	CITY OF TULSA
266	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
272	DILL, KIMBERLY KAY
273	STATE OF OKLAHOMA
274	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
275	ENBRIDGE PIPELINES LLC C/O RIGHT OF WAY DEPARTMENT
276	CASEY, RHONDA L
277	TEXAS EMPIRE PIPE LINE CO C/O ENBRIDGE PIPELINE(OZARK
278	BROWN, JIMMY L AND KATHLEEN L
279	BIVINS, LOYD AND MARSHA
280	SHERFIELD, NANETTE
281	NEWFORT, DANIEL E AND MARLA J
282	1118 W 49TH ST TRUST
283	DELOZIER, JENNIFER
284	MORRIS, C PHILIP & JANICE LIVING TRUST
285	HYDE, NORMA J TRUSTEE NORMA J HYDE TRUST
286	HALL, THOMAS R & MARY M CO TTEES
287	ROUDABUSH, STEPHANIE
288	MARTINEZ, JAMES L AND APRIL S
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
290	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
291	SOLOMON, WAYNE AND DEBORAH
292	ROBINSON, PAUL T AND ANNA MAE
293	MCLENDON, JAMES T AND ROBERTA
294	CARR, WILLIAM C AND JUDITH A
295	HORN, SIDNEY L
296	CLARKSON, CHARLES A
297	STATE OF OKLAHOMA DEPARTMENT OF HWY R/W DIVISION

PARCEL #	OWNER
298	WINNETKA HEIGHTS BAPTIST CHURCH OF TULSA
299	PUBLIC SERVICE CO OF OKLA
300	OAKLEY PROPERTIES LLC
301	CLUBB, PEGGY LOIS LIVING TRUSTC/O PEGGY LOIS CLUBB TTE
302	COCHRAN, HELGA
303	CARPENTER, CLARA D
304	STONE, GENIE M
305	ELLINGTON, JUSTIN
306	BORK, ADAM J AND PATRICIA L
307	MCDEVITT, PEGGY JO TRSTEE PEGGY JO MCDEVITT REV TRST
308	PETERSEN, NEAL E
309	DEAN, LUCAS ADAM

PARCEL #	OWNER
310	WILLIAMS, JANELLE L
311	STOTTLEMYRE, ANDREW
312	4968 S MAYBELLE AVE LAND TRUST, THE
313	BAKER, SHELTON
314	SIMMONS, RANDLE A & TAMARA D
315	HALL, JEREMY D
316	TALLEY, BRUCE AND CARO.YN
317	SMITH, JOSEPH D
318	PUBLIC SERVICE CO OF OKLA
319	CITY OF TULSA
320	CITY OF TULSA
321	CITY OF TULSA
322	RED FORK MASONIC LODGE NO 505
323	RED FORK LODGE NO 505 A F & A M
324	WEINSTOCK, JOEL
325	CITY OF TULSA
326	RONGEY, PAUL AND JOHN A SMITH
327	RONGEY, PAUL AND JOHN A SMITH
328	RONGEY, PAUL AND JOHN A SMITH
329	AL-KAZAZ, GAHLIB REV TRUST, THE
330	TLC PROPERTIES INC C/O AMAR OUTDOOR

PARCEL #	OWNER
331	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
332	BECCO CONTRACTORS INC
333	Y M C A OF GREATER TULSA METROPOLITAN OFFICE
334	CITY OF TULSA
335	SEIFRIED, MELISSA TRUST
336	LEHMAN, RAY T TRUSTEE RAY T LEHMAN TRUST
337	MONAHAN, VIRGINIA H TRSTE VIRGINIA HELEN MONAHAN
338	WEST SKELLY INDUSTRIAL PARK ATTN ALLEN G GELWICK JR
339	MDM INVESTMENTS LP
340	JARIWALA LLC
341	MDM INVESTMENTS LP
342	BOTTLING GROUP LLC
343	CITY OF TULSA
344	BOTTLING GROUP LLC
345	EXPLORER HOLDING COMPANY LLC
346	STATE OF OKLAHOMA DEPT HIGHWAY RIGHT OF WAY
347	FOWLER PROPERTIES TULSA C LLC

LEGEND

- POWERLINE
- FIBER OPTIC
- GAS LINE
- TELEPHONE UNDERGROUND
- WATER
- OIL LINE
- POWER UNDERGROUND
- SANITARY SEWER
- OVERHEAD TELEPHONE LINE
- EXISTING RIGHT-OF-WAY
- PROPERTY LINE
- DATA COLLECTION AREA
- STREAM FLOWLINE
- TRADEFIXTURE
- UST/AST SITE
- POTENTIAL HAZARDOUS MATERIALS SITE
- LUST/LAST SITE
- WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY

11/1/2016

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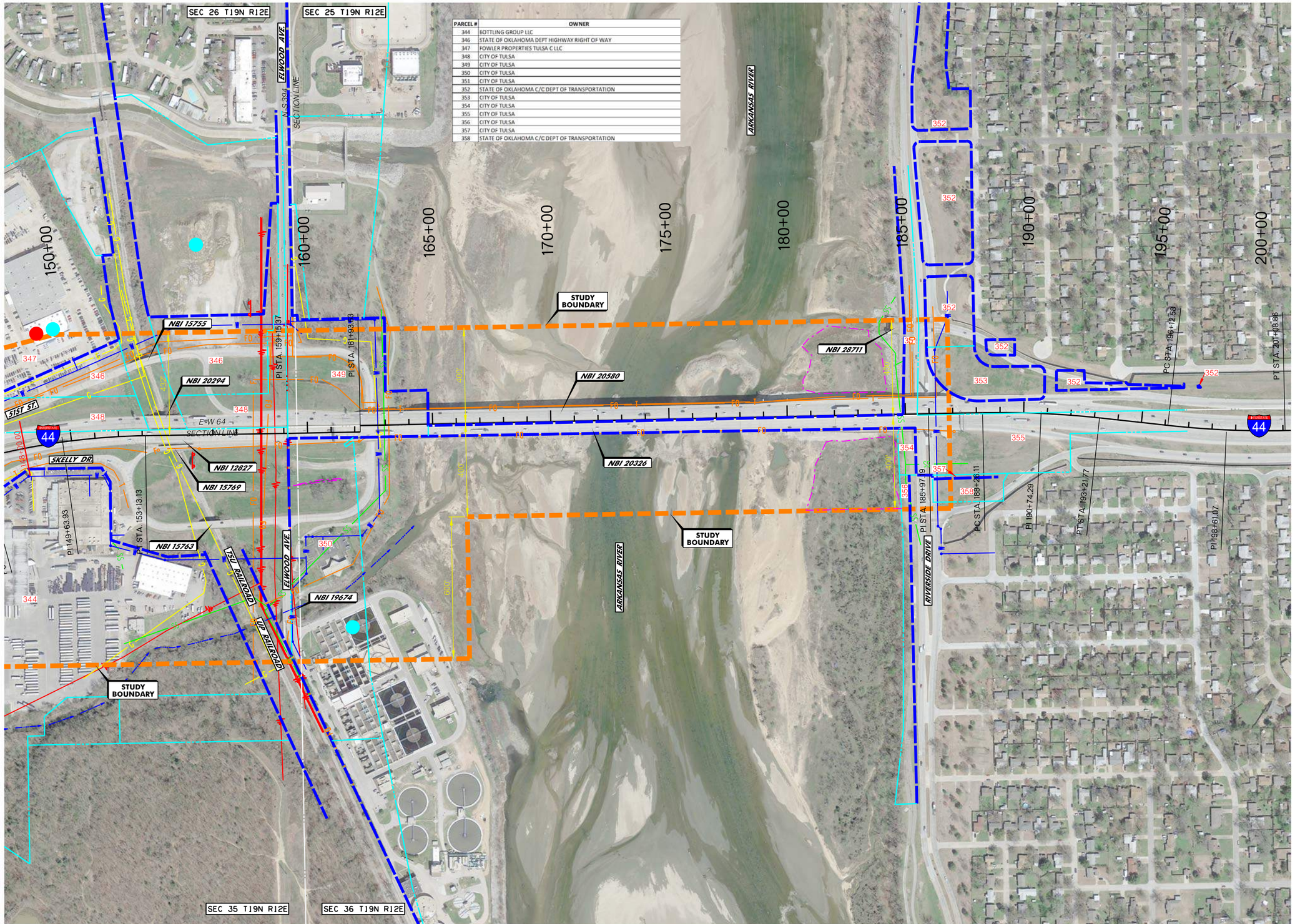
SCALE



PARCEL #	OWNER
344	BOTTLING GROUP LLC
346	STATE OF OKLAHOMA DEPT HIGHWAY RIGHT OF WAY
347	FOWLER PROPERTIES TULSA C LLC
348	CITY OF TULSA
349	CITY OF TULSA
350	CITY OF TULSA
351	CITY OF TULSA
352	STATE OF OKLAHOMA C/C DEPT OF TRANSPORTATION
353	CITY OF TULSA
354	CITY OF TULSA
355	CITY OF TULSA
356	CITY OF TULSA
357	CITY OF TULSA
358	STATE OF OKLAHOMA C/C DEPT OF TRANSPORTATION

LEGEND

- POWERLINE
- FIBER OPTIC
- GAS LINE
- TELEPHONE UNDERGROUND
- WATER
- OIL LINE
- POWER UNDERGROUND
- SANITARY SEWER
- OVERHEAD TELEPHONE LINE
- EXISTING RIGHT-OF-WAY
- PROPERTY LINE
- DATA COLLECTION AREA
- STREAM FLOWLINE
- TRADEFIXTURE
- UST/AST SITE
- POTENTIAL HAZARDOUS MATERIALS SITE
- LUST/LAST SITE
- WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
11/1/2016

0 200 400 600
SCALE

SEC 03 T18N R12E | SEC 34 T19N R12E | SEC 02 T18N R12E | SEC 35 T19N R12E

N-S 393 SECTION LINE

UNION AVE.

STUDY BOUNDARY

NBI 17865 | NBI 12830

PI STA 105+74.81

SEC 34 T19N R12E | SEC 27 T19N R12E | SEC 35 T19N R12E | SEC 26 T19N R12E

I-44

E 41ST ST

TACOMA AVE.

BATES PARK

210+00 | 215+00 | 220+00 | 225+00 | 230+00 | 235+00 | 240+00 | 245+00 | 250+00 | 255+00 | 260+00 | 265+00

E-W 65 SECTION LINE

E-W 64 SECTION LINE

SKELLY DR.

NBI 15843 | NBI 15832 | NBI 15839 | NBI 15840 | NBI 15831 | NBI 15838

75

NBI 16564

STUDY BOUNDARY

YMCA

NBI 11970

PC STA 130+35.63

PI 133+88.00

MAYBELLE AVE.

PT STA 137+36.86

STUDY BOUNDARY

SEC 02 T18N R12E | SEC 35 T19N R12E | SEC 35 T19N R12E | SEC 26 T19N R12E

PARCEL #	OWNER
192	CITY OF TULSA
195	BANNISTER INVESTMENTS LLC
225	STATE OF OKLAHOMA DEPT OF HWYS R/W DEPT
236	QUIKTRIP CORP ATTN TAX DEPT
237	QUIKTRIP CORPORATION ATT: TAX DEPT
239	ASPEN LAND & EXPLORATION COMPANY
240	WEST BANK STORAGE LLC
241	CITY OF TULSA
242	WEST BANK STORAGE LLC
250	WAREHOUSE MARKET 51ST & UNION LLC
252	CITY OF TULSA
253	TULSA COUNTY
254	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
255	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
256	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
257	WATTS, ROBERT
258	CITY OF TULSA
259	JANOWSKI, BRADEN S TRUSTEE BRADEN S S. JANOWSKI TR.
260	CITY OF TULSA
261	JOHNSON, WILLIS G AND EVELYN M TRUSTEES JOHNSON TR
262	SMITH, DAVID L AND HOLLIS J
263	CITY OF TULSA
264	CITY OF TULSA
265	HOUSING AUTHORITY OF CITY OF TULSA
266	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
267	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
268	PLACEDER ONE LLC
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
290	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
296	CLARKSON, CHARLES A
297	STATE OF OKLAHOMA DEPARTMENT OF HWY R/W DIVISION
309	DEAN, LUCAS ADAM
310	WILLIAMS, JANELLE L

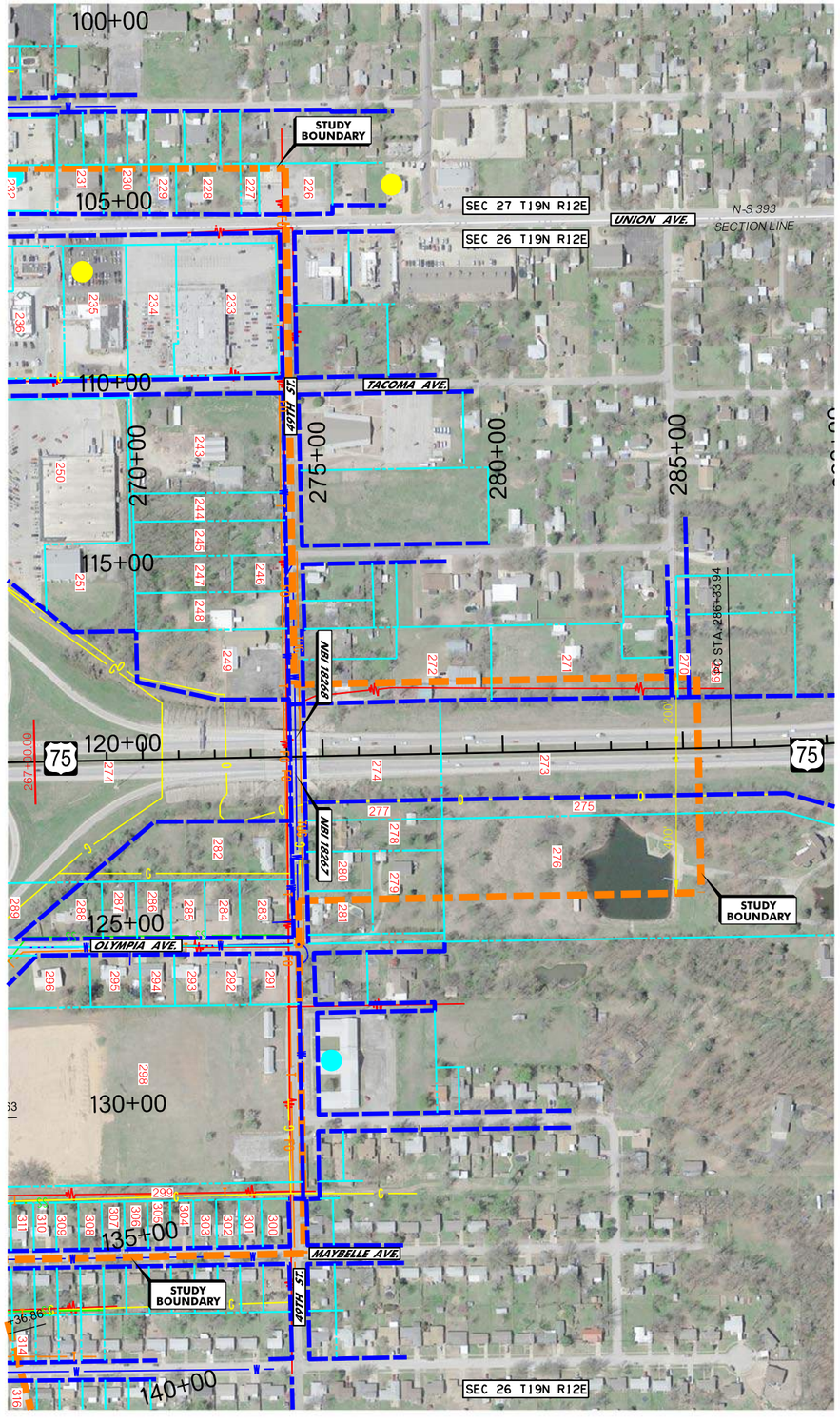
PARCEL #	OWNER
311	STOTTLEMYRE, ANDREW
312	4968 S MAYBELLE AVE LAND TRUST, THE
313	BAKER, SHELTON
314	SIMMONS, RANDLE A & TAMARA D
315	HALL, JEREMY D
316	TALLEY, BRICE AND CAROLYN
318	PUBLIC SERVICE CO OF OKLA
319	CITY OF TULSA
320	CITY OF TULSA
321	CITY OF TULSA
322	RED FORK MASONIC LODGE NO 505
323	RED FORK LODGE NO 505 A F & A M
324	WEINSTOCK, JOEL
325	CITY OF TULSA
326	RONGEY, PAUL AND JOHN A SMITH
327	RONGEY, PAUL AND JOHN A SMITH
328	RONGEY, PAUL AND JOHN A SMITH
329	AL-KAZAZ, GAHLIB REV TRUST, THE
330	TLC PROPERTIES INC C/O LAMAR OUTDOOR
331	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
332	BECCO CONTRACTORS INC
333	Y M C A OF GREATER TULSA METROPOLITAN OFFICE
334	CITY OF TULSA
335	SEIFRIED, MELISSA TRUST
336	LEHMAN, RAY T TRUSTEE RAY T LEHMAN TRUST
337	MONAHAN, VIRGINIA H TRUSTEE VIRGINIA HELEN MONAHAN TR
338	WEST SKELLY INDUSTRIAL PARK ATTN ALLEN G GELWICK JR
339	MDM INVESTMENTS LP
340	JARIWALA LLC
341	MDM INVESTMENTS LP
342	BOTTLING GROUP LLC
343	CITY OF TULSA

LEGEND

POWERLINE
FIBER OPTIC
GAS LINE
TELEPHONE UNDERGROUND
WATER
OIL LINE
POWER UNDERGROUND
SANITARY SEWER
OVERHEAD TELEPHONE LINE
EXISTING RIGHT-OF-WAY
PROPERTY LINE
DATA COLLECTION AREA
STREAM FLOWLINE
TRADEFIXTURE
UST/AST SITE
POTENTIAL HAZARDOUS MATERIALS SITE
LUST/LAST SITE
WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

11/1/2016 9:08:26 AM L:\2016\6037070 - ODOT EC-1780 I44 from I244 Interchange\Drawings\32728_PLAN_RECON_004.dgn



PARCEL #	OWNER
226	LOLLIS, JACK & SUSAN
227	PAREKH, A JASHVANT AND MALTI J AND JASHVANTBHAI
228	CLARY, ARTHUR M SR AND EDYTHE TRUSTEES CLARY TR
229	SOUTHWEST PROPERTIES REALTY
230	CRW PROPERTIES INC
231	PLEASANT PROPERTIES LLC
232	LINC PROPERTIES LLC
233	SHADOWBROOK PROPERTIES LLC
234	RONGEY, PAUL D AND JOHN A SMITH
235	501 S LEWIS LLC
236	QUIKTRIP CORP ATTN TAX DEPT
243	BRADY RESIDENTIAL PROPERTIES LLC
244	DEUTSCHE BANK NATIONAL TRUST CO TTEE
245	LAHR, CARL E AND RITA A
246	BERCHER, ANNICE M & RANDY ROBERT
247	BERCHER, ANNICE M & RANDY ROBERT
248	CROSSROADS FULL GOSPEL CHURCH
249	CROSSROADS PENTECOSTAL CHURCH OF GOE INC
250	WAREHOUSE MARKET 51ST & UNION LLC
251	ASPEN SQUARE INC
269	COCHRAN, MICHAEL RAY REV TRUST C/O MICHAEL RAY COCHRAN TTEE
270	CITY OF TULSA
271	CLINE, CHARLES C JR AND BETTE L TRUSTEES CHARLES C JR &
272	DILL, KIMBERLY KAY
273	STATE OF OKLAHOMA
274	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
275	ENBRIDGE PIPELINES LLC C/O RIGHT OF WAY DEPARTMENT
276	CASEY, RHONDA L
277	TEXAS EMPIRE PIPE LINE CO C/O ENBRIDGE PIPELINES (OZARK)
278	BROWN, JIMMY L AND KATHLEEN L
279	BIVINS, LOYD AND MARSHA
280	SHERFIELD, NANETTE
281	NEWPORT, DANIEL E AND MARLA J
282	1118 W 49TH ST TRUST
283	DELOZIER, JENNIFER
284	MORRIS, C PHILIP & JANICE LIVING TRUST
285	HYDE, NORMA J TRUSTEE NORMA J HYDE TRUST
286	HALL, THOMAS R & MARY M CO TTEES THOMAS R & MARY M HALL FAMILY
287	ROUDABUSH, STEPHANIE
288	MARTINEZ, JAMES L AND APRIL S
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
291	SOLOMON, WAYNE AND DEBORAH
292	ROBINSON, PAUL T AND ANNA MAE
293	MCLENDON, JAMES T AND ROBERTA
294	CARR, WILLIAM C AND JUDITH A
295	HORN, SIDNEY L
296	CLARKSON, CHARLES A
298	WINNETKA HEIGHTS BAPTIST CHURCH OF TULSA
299	PUBLIC SERVICE CO OF OKLA
300	OAKLEY PROPERTIES LLC
301	CLUBB, PEGGY LOIS LIVING TRUST C/O PEGGY LOIS CLUBB TTEE
302	COCHRAN, HELGA
303	CARPENTER, CLARA D
304	STONE, GENIE M
305	ELLINGTON, JUSTIN
306	BORK, ADAM J AND PATRICIA L
307	MCDEVITT, PEGGY JO TRUSTEE PEGGY JO MCDEVITT REV TRUST
308	PETERSEN, NEAL E
309	DEAN, LUCAS ADAM
310	WILLIAMS, JANELLE L
311	STOTTLEMYRE, ANDREW
314	SIMMONS, RANDLE A & TAMARA D
316	TALLEY, BRICE AND CAROLYN

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
11/1/2016

0 200 400 600
SCALE

LEGEND

POWERLINE
FIBER OPTIC
GAS LINE
TELEPHONE UNDERGROUND
WATER
OIL LINE
POWER UNDERGROUND
SANITARY SEWER
OVERHEAD TELEPHONE LINE
EXISTING RIGHT-OF-WAY
PROPERTY LINE
DATA COLLECTION AREA
STREAM FLOWLINE
TRADEFIXTURE
UST/AST SITE
POTENTIAL HAZARDOUS MATERIALS SITE
LUST/LAST SITE
WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

11/1/2016 9:41:30 AM L:\2016\16037070 - ODOT EC-I780 I44 from I244 interchange\Drawings\32728_PLAN_RECON_005.dgn

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
11/1/2016

0 200 400 600
SCALE

PARCEL #	OWNER
001	LINPEN INVESTMENTS LLC
002	ADETULA, AMOS OLATUNDE
003	GLEANOR MISSIONARY SOCIETY INC
004	IGLESIA OESTE ASAMBLEA DE DIOS INC
005	BERCHER, TRAVIS
006	MORENO, ANDREW A IV
007	LUGINBILL, SANDRA S
008	MILLER, MATTHEW O & KRISTIE G
009	ABEL, MARY ANN
010	ROWE, JAMES
011	JOHNSON REAL ESTATE PROPERTIES LLC
012	DAVIS, CATHY LEE
013	ELMORE, JESSICA L
014	TUCKER, RAYMOND L & EMILE D
015	BLAKE, KEVIN
016	KEMPER, PAULA K
017	CARTER, CHRISTOPHER M & MADELINE P
018	WALLS, KRISTIN C R
019	WHEAT, LAWRENCE WESLEY & ROSA MAE TTEES
020	DENNEY, CHARLES JASON
021	FIELDS, BOBBY LAWRENCE AND SANDRA K

PARCEL #	OWNER
022	BRUDER, DANIEL LLOYD
023	RETAIL BUILDINGS INC C/O JACOBI & ASSOC
024	CITY OF TULSA
025	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
025A	LUGINBILL, SANDRA S & DELBERT B
026	LUGINBILL, SANDRA S
027	LUGINBILL, SANDRA S
028	LUGINBILL, SANDRA S
029	VANN, JAMES ELMER
030	GRODEN, JAMES E AND ROZENA R
031	STACY, SHEILA JEAN
032	OAKLEY PROPERTIES LLC
033	OAKLEY PROPERTIES LLC
034	REED, SHERRY KATHLEEN
035	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
036	GLENCO INVESTMENTS LLC
037	LUGINBILL, SANDRA S
038	SHORES, ORVILLE DUNCAN-DONNIE LLC
039	BRYAN, PATRICK S AND JAMIE D
040	ROSAS, ALICIA
041	MEDINA, ABEL AND ANITA

PARCEL #	OWNER
042	CLANTON, JIM D AND TERI D
043	KEMPER, PAULA K
044	HALL, JERRY L & SHANE LOWE
045	BLUESTONE PROPERTIES LLC
046	WEST, JANET SUE TTEE MARGARET LLOWERY FAMILY TR
047	CITY OF TULSA
048	SALDEEN, LORI A
049	SMITH, GENE AND SARA
050	ROGERS, GARY W AND DEBORAH L BROWN
051	MAHONEY, J MELINDA
052	WILLIAMSON, BILL T C/O ORVILLE JR & MARIA WILLS
053	CITY OF TULSA
054	TULSA COUNTY
055	TULSA COUNTY
056	TULSA COUNTY
057	TULSA COUNTY
058	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
059	EWERS, JAMES F III TRUSTEE JAMES F EWERS III TR
060	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
061	CLARK CHILDREN TRUSTS

PARCEL #	OWNER
062	CALVERT, DANIEL E & OLETA CO-TRUSTEES DANIEL E & OLETA CALVERT REV TRUS
063	TARIAH, SOLOMON B
064	TARIAH, SOLOMON B
065	TARIAH, SOLOMON B
066	POLITE, VERDA MAE
067	TARIAH, SOLOMON B AND YEVETTE M
068	BELL, GARFIELD AND ROSCOE JONES
069	BELL, GARFIELD AND ROSCOE JONES
070	GILLIAM, EARL R AND LINDA J
071	BRANTLEY PROPERTIES LLC
072	ASPEN LAND & EXPLORATION COMPANY
073	DENNEY, DAN P
074	BOYLE, GUY I AND CYNTHIA L
075	REESE, JAMES M AND REBECCA R
076	FITCH, STEPHANIE
077	MARTIN, C G COMPANY INC
078	MARTIN, MAXINE L TRUSTEE
079	K & JR LLC
080	BRAMLETT, DOROTHY C/O KENNY RUSSELL
081	K & JR LLC

PARCEL #	OWNER
082	K & JR LLC
083	BRADY, PATRICK B
084	ROBERTS, ERNIE L & WILMA J
085	ROBERTS, LARRY
086	CLARK, JASON RAE
087	MCDONALD, IRENE
088	SHAHIN, WALTER & CAROL
089	ABEL, ZOE M
090	SALIMI, SAJID S INC
091	SALIMI, SAJID S INC
092	ADAIR, TODD DAVID
093	MALACHI MANAGEMENT CORP
094	KNOWLTON TRUST
094A	CITY OF TULSA
095	MALACHI MANAGEMENT CORPORATION
096	MALACHI MANAGEMENT CORPORATION
097	MALACHI MANAGEMENT CORPORATION
097A	CITY OF TULSA
098	CARBONDALE CHURCH OF CHRIST INC
098A	CITY OF TULSA
099	CARBONDALE CHURCH OF CHRIST INC
100	FORT, MERLIN D AND JOY L
101	BOHLANDER, JOHN P III
102	DUBUC, DOUG C
103	CARBONDALE CHURCH OF CHRIST
104	SAND SPRINGS HOME
105	SCHULTZ, TERRY M
106	STOVER, MARGARET M TTEE ROBERT &
107	CARBONDALE CHURCH OF CHRIST

PARCEL #	OWNER
108	CARBONDALE CHURCH OF CHRIST
109	CARBONDALE CHURCH OF CHRIST
110	CARBONDALE CHURCH OF CHRIST
111	STATE OF OKLAHOMA C/O DEPT OF HWY R/W DIV
112	HOPE, WEALTHIA A
113	OAKLEY, SHELBY D
114	BRANCHCOMB, JIMMY
115	DURBIN, DAVID J
116	DURBIN, DAVID J
117	WAKEFIELD, WILLIAM JR
118	SMITH, JAMES M AND MELINDA K
119	D & P PROPERTIES LLC
120	HARRY LLC
121	GLOVER, WANDA P
122	VENETOFF, RICHARD
123	TOWNES, ROBERT H
124	BROWN, HARLEY L AND BARBARA
125	FARRAN, RANDALL E & BARBARA LYNN
126	LONE WOLF, SARAH JEAN
127	CITY OF TULSA
128	LAWSON, BILLY J
129	COX, TY & ELIZABETH HURFORD
130	JOHNSON, STAN AND CONNIE
131	LEE, LINLY P
132	SHANKS, RONALD A
133	BUNDY, SUSAN J TRUSTEE
134	SELLARS-WILSON, ROXANA K
135	GARRISON, ROBERT F AND SHARON J
136	MORDHORST, DAN D REVOCABLE TRUST

PARCEL #	OWNER
137	MANESS, JO ANNE
138	DAILEY, BETTY R
139	SAVAGE, DAVID JAMES AND LAURA LEE
140	MENDOZA, KYLE M AND REBECCA ANN
141	BRASHEAR, KYLE MANNING TRUST
142	OAKLEY PROPERTIES LLC
143	HERMAN, DARRELL
144	SCOTT, ROBERT E & MARILYN H REV TRUST
145	SCOTT, ROBERT E & MARILYN H REV TRUST
146	SCOTT, ROBERT E & MARILYN H REV TRUST
147	TULSA COUNTY
148	ESTES, RONNIE S & ROBIN L
149	VTR HILLCREST MC TULSA LLC C/O ALTUS GROUP US
150	JOHNSON, GENE A AND WANDA J
151	CROW, KEVIN C AND TAMMY A
152	CARR, BAIRD R AND LAURA L
153	GIVENS, ROCHELLE
154	HERNANDEZ, ANA SANCHEZ & FRANCISCO OCTAVIANO DE LOS SANTOS
155	MCCLANAHAN, RONALD E AND STEPHANIE E
156	PATTISON, RONALD L AND PHYLLIS GAYLE
157	PONDEROSA HOLDINGS LLC
158	CITY OF TULSA
159	PONDEROSA HOLDINGS LLC
160	CITY OF TULSA
161	TULSA CITY COUNTY LIBRARY COMMISSION
163	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
164	STATE OF OKLAHOMA DEPT OF HWY R/W DIV

PARCEL #	OWNER
165	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
166	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
167	PEOPLES BANK
168	TULSA INVESTMENT GROUP IV LP
169	GOODSON, CHARLES M & KAREN L
170	GOODSON, CHARLES M & KAREN L
171	EBERTH INVESTMENTS LLC
172	OGLESBY, RICHARD B AND TERESA L
173	OGLESBY, RICHARD B AND TERESA L
174	KRAMER LLC
175	VANDERPOOL FAMILY TRUST
176	SHORES, ORVILLE DUNCAN-DONNIE LLC
177	VANDERPOOL FAMILY TRUST
178	VANDERPOOL, RUTH ANDNANCY
179	SHORES, ORVILLE DUNCAN-DONNIE LLC
180	CHOJO DEVELOPMENT LLC
181	WHEELER, LANCE A AND STACY L TRUSTEES WHEELER FAMILY REV. TR.
182	WHEELER, LANCE A AND STACY L TRUSTEES WHEELER FAMILY REV. TR.
183	ALBERT, ROMAN M JR AND VIRGINIA K
184	MDM INVESTMENTS
185	SOUTHERN HILLS MANOR INV CORP C/O DARLENE RAY
186	SOUTHERN HILLS MANOR INVESTMENT CORP
187	CITY OF TULSA
188	DEMORE ENTERPRISES OF TULSA, INC.
189	DEMORE ENTERPRISES OF TULSA, INC
190	PATEL, ISHAVERBHAI & SAVITABEN ISHAVERBHAI PATEL
196	CARBONDALE ASSEMBLY OF GOD CHURCH INC

SEC 28 T19N R12E | SEC 27 T19N R12E | SEC 33 T19N R12E | SEC 34 T19N R12E

33RD W. AVE. | 25TH W. AVE.

30+00 | 35+00 | 40+00 | 45+00 | 50+00 | 55+00 | 60+00 | 65+00 | 70+00 | 75+00 | 80+00 | 85+00

STUDY BOUNDARY

E-W 64 SECTION LINE

SECTION LINE

T&OC RAILROAD

NBI 19471 | NBI 19479 | NBI 12814 | NBI 12815

SKELLY DR.

Moose

LEGEND

POWERLINE
FIBER OPTIC
GAS LINE
TELEPHONE UNDERGROUND
WATER
OIL LINE
POWER UNDERGROUND
SANITARY SEWER
OVERHEAD TELEPHONE LINE
EXISTING RIGHT-OF-WAY
PROPERTY LINE
DATA COLLECTION AREA
STREAM FLOWLINE
TRADEFIXTURE
UST/AST SITE
POTENTIAL HAZARDOUS MATERIALS SITE
LUST/LAST SITE
WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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11/1/2016 8:59:28 AM

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
11/1/2016

0 200 400 600
SCALE

PARCEL #	OWNER
161	TULSA CITY COUNTY LIBRARY COMMISSION
162	CARBONDALE ASSEMBLY OF GOD CHURCH
163	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
166	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
191	AVERY BARRON HOLDINGS, LLC
192	CITY OF TULSA
193	REALATION COMMUNITY SERVICES OF OKLAHOMA INC
194	RACETRACK PROPERTY LLC
195	BANNISTER INVESTMENTS LLC
196	CARBONDALE ASSEMBLY OF GOD CHURCH INC
196A	CITY OF TULSA
197	HARRELL, DELMAR J AND DOROTHY M C/O JOE ADMIRE JR
198	ELLIS, JOE R AND KERRI L
199	NOZAK, LINDSAY
200	BEAN, JAMES & TRACY
201	BRYAN, JESSE DALE & ASHLEY MARIE
202	BUMGARNER, NORMA JEAN & DAVID LEE & OMIA SCOT
203	CASTANEDA, FRANCISCO AND SARAH R
204	KLEIN, DAVID H TRUSTEE DAVID H KLEIN TRUST
205	PURZNER, JOHN MICHAEL
206	JOHNSON, WILLIS GRANT AND EVELYN M TRUSTEES
207	CRA HOLDINGS LLC

PARCEL #	OWNER
208	JOHNSON, SYLVIA M
209	MCCOMBS, MARK ALAN AND OKSANA I
210	URIAS, CRYSTAL D
211	HAUCK, ALISSA
212	WOODS, 3RITTANY ALISHA & JEFFREY ALAN
213	PENN, A MICHELE
214	P2 EQUITY INC
215	BOLING, PEGGY C
216	JJB PROPERTIES LLC
217	LEGACY FUNERAL HOLDINGS OF OKLAHOMA LLC
218	WHITETREE, MARK
219	DAVIS, BENJAMIN C AND MONICA M
220	CITY OF TULSA
221	MCCOY, SALLY B TRUSTEE SALLY B MCCOY TRUST NO 2 ETAL
222	MCCOY, SALLY B TRUSTEE SALLY B MCCOY TRUST NO 2 ETAL
223	MCCOY, SALLY B AND DONALD B ATKINS TRUSTEES
224	TULSA INVESTMENT GROUP IV LP C/O RYAN LLC
225	STATE OF OKLAHOMA DEPT OF HWYS R/W DEPT
226	LOLLIS, JACK & SUSAN
227	PAREKH, A JASHVANT AND MALTI J AND JASHVANTBHAI
228	CLARY, ARTHUR M SR AND EDYTHE TRUSTEES CLARY TR
229	SOUTHWEST PROPERTIES REALTY

PARCEL #	OWNER
230	CRW PROPERTIES INC
231	PLEASANT PROPERTIES LLC
232	LINC PROPERTIES LLC
233	SHADOWBROOK PROPERTIES LLC
234	RONGEY, PAUL D AND JOHN A SMITH
235	501 S LEWIS LLC
236	QUIKTRIP CORP ATTN TAX DEPT
237	QUIKTRIP CORPORATION ATT: TAX DEPT
238	CITY OF TULSA
239	ASPEN LAND & EXPLORATION COMPANY
240	WEST BANK STORAGE LLC
241	CITY OF TULSA
242	WEST BANK STORAGE LLC
243	BRADY RESIDENTIAL PROPERTIES LLC
244	DEUTSCHE BANK NATIONAL TRUST CO TTEE
245	LAHR, CARL E AND RITA A
246	BERCHER, ANNICE M & RANDY ROBERT
247	BERCHER, ANNICE M & RANDY ROBERT
248	CROSSROADS FULL GOSPEL CHURCH
249	CROSSROADS PENTECOSTAL CHURCH OF GOD INC
250	WAREHOUSE MARKET 51ST & UNION LLC
251	ASPEN SQUARE INC
252	CITY OF TULSA
253	TULSA COUNTY
254	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
255	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
256	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
257	WATTS, ROBERT
258	CITY OF TULSA
259	JANOWSKI, BRADEN S TRUSTEE BRADEN S S. JANOWSKI TR
260	CITY OF TULSA

PARCEL #	OWNER
261	JOHNSON, WILLIS G AND EVELYN M TRUSTEES JOHNSON TR
262	SMITH, DAVID L AND HOLLIS J
263	CITY OF TULSA
264	CITY OF TULSA
266	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
272	DILL, KIMBERLY KAY
273	STATE OF OKLAHOMA
274	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
275	ENBRIDGE PIPELINES LLC C/O RIGHT OF WAY DEPARTMENT
276	CASEY, RHONDA L
277	TEXAS EMPIRE PIPE LINE CO C/O ENBRIDGE PIPELINE(OZARK
278	BROWN, JIMMY L AND KATHLEEN L
279	BIVINS, LOYD AND MARSHA
280	SHERFIELD, NANETTE
281	NEWFORT, DANIEL E AND MARLA J
282	1118 W 49TH ST TRUST
283	DELOZIER, JENNIFER
284	MORRIS, C PHILIP & JANICE LIVING TRUST
285	HYDE, NORMA J TRUSTEE NORMA J HYDE TRUST
286	HALL, THOMAS R & MARY M CO TTEES
287	ROUDABUSH, STEPHANIE
288	MARTINEZ, JAMES L AND APRIL S
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
290	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
291	SOLOMON, WAYNE AND DEBORAH
292	ROBINSON, PAUL T AND ANNA MAE
293	MCLENDON, JAMES T AND ROBERTA
294	CARR, WILLIAM C AND JUDITH A
295	HORN, SIDNEY L
296	CLARKSON, CHARLES A
297	STATE OF OKLAHOMA DEPARTMENT OF HWY R/W DIVISION

PARCEL #	OWNER
298	WINNETKA HEIGHTS BAPTIST CHURCH OF TULSA
299	PUBLIC SERVICE CO OF OKLA
300	OAKLEY PROPERTIES LLC
301	CLUBB, PEGGY LOIS LIVING TRUSTC/O PEGGY LOIS CLUBB TTI
302	COCHRAN, HELGA
303	CARPENTER, CLARA D
304	STONE, GENIE M
305	ELLINGTON, JUSTIN
306	BORK, ADAM J AND PATRICIA L
307	MCDEVITT, PEGGY JO TRSTEE PEGGY JO MCDEVITT REV TRST
308	PETERSEN, NEAL E
309	DEAN, LUCAS ADAM

PARCEL #	OWNER
310	WILLIAMS, JANELLE L
311	STOTTLEMYRE, ANDREW
312	4968 S MAYBELLE AVE LAND TRUST, THE
313	BAKER, SHELTON
314	SIMMONS, RANDLE A & TAMARA D
315	HALL, JEREMY D
316	TALLEY, BRICE AND CARO.YN
317	SMITH, JOSEPH D
318	PUBLIC SERVICE CO OF OKLA
319	CITY OF TULSA
320	CITY OF TULSA
321	CITY OF TULSA
322	RED FORK MASONIC LODGE NO 505
323	RED FORK LODGE NO 505 A F & A M
324	WEINSTOCK, JOEL
325	CITY OF TULSA
326	RONGEY, PAUL AND JOHN A SMITH
327	RONGEY, PAUL AND JOHN A SMITH
328	RONGEY, PAUL AND JOHN A SMITH
329	AL-KAZAZ, GAHLIB REV TRUST, THE
330	TLC PROPERTIES INC C/O AMAR OUTDOOR

PARCEL #	OWNER
331	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
332	BECCO CONTRACTORS INC
333	Y M C A OF GREATER TULSA METROPOLITAN OFFICE
334	CITY OF TULSA
335	SEIFRIED, MELISSA TRUST
336	LEHMAN, RAY T TRUSTEE RAY T LEHMAN TRUST
337	MONAHAN, VIRGINIA H TRSTE VIRGINIA HELEN MONAHAN
338	WEST SKELLY INDUSTRIAL PARK ATTN ALLEN G GELWICK JR
339	MDM INVESTMENTS LP
340	JARIWALA LLC
341	MDM INVESTMENTS LP
342	BOTTLING GROUP LLC
343	CITY OF TULSA
344	BOTTLING GROUP LLC
345	EXPLORER HOLDING COMPANY LLC
346	STATE OF OKLAHOMA DEPT HIGHWAY RIGHT OF WAY
347	FOWLER PROPERTIES TULSA C LLC

LEGEND

POWERLINE
FIBER OPTIC
GAS LINE
TELEPHONE UNDERGROUND
WATER
OIL LINE
POWER UNDERGROUND
SANITARY SEWER
OVERHEAD TELEPHONE LINE
EXISTING RIGHT-OF-WAY
PROPERTY LINE
DATA COLLECTION AREA
STREAM FLOWLINE
TRADEFIXTURE
UST/AST SITE
POTENTIAL HAZARDOUS MATERIALS SITE
LUST/LAST SITE
WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

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PARCEL #	OWNER
344	BOTTLING GROUP LLC
346	STATE OF OKLAHOMA DEPT HIGHWAY RIGHT OF WAY
347	FOWLER PROPERTIES TULSA C LLC
348	CITY OF TULSA
349	CITY OF TULSA
350	CITY OF TULSA
351	CITY OF TULSA
352	STATE OF OKLAHOMA C/C DEPT OF TRANSPORTATION
353	CITY OF TULSA
354	CITY OF TULSA
355	CITY OF TULSA
356	CITY OF TULSA
357	CITY OF TULSA
358	STATE OF OKLAHOMA C/C DEPT OF TRANSPORTATION

SEC 26 T19N R12E
SEC 25 T19N R12E
SEC 35 T19N R12E
SEC 36 T19N R12E
SECTION LINE
E-W 64
51ST ST.
SKELLY DR.
ELWOOD AVE.
ARKANSAS RIVER
RIVERSIDE DRIVE
STUDY BOUNDARY
NBI 15755
NBI 20294
NBI 12827
NBI 15769
NBI 15763
NBI 19674
NBI 20580
NBI 20326
NBI 28711
SBU RAILROAD
UP RAILROAD
150+00
160+00
165+00
170+00
175+00
180+00
185+00
190+00
195+00
200+00
PI STA. 169+15.37
PI STA. 161+93.63
PI STA. 153+13.13
PI 149+63.93
PC STA. 196+12.58
PI 190+74.29
PT STA. 193+21.77
PI 198+61.07
PI STA. 185+97.93
PC STA. 181+25.31
PT STA. 201+08.86
Pipeline
44

LEGEND

- POWERLINE
- FIBER OPTIC
- GAS LINE
- TELEPHONE UNDERGROUND
- WATER
- OIL LINE
- POWER UNDERGROUND
- SANITARY SEWER
- OVERHEAD TELEPHONE LINE
- EXISTING RIGHT-OF-WAY
- PROPERTY LINE
- DATA COLLECTION AREA
- STREAM FLOWLINE
- TRADEFIXTURE
- UST/AST SITE
- POTENTIAL HAZARDOUS MATERIALS SITE
- LUST/LAST SITE
- WETLAND (FIELD IDENTIFIED)

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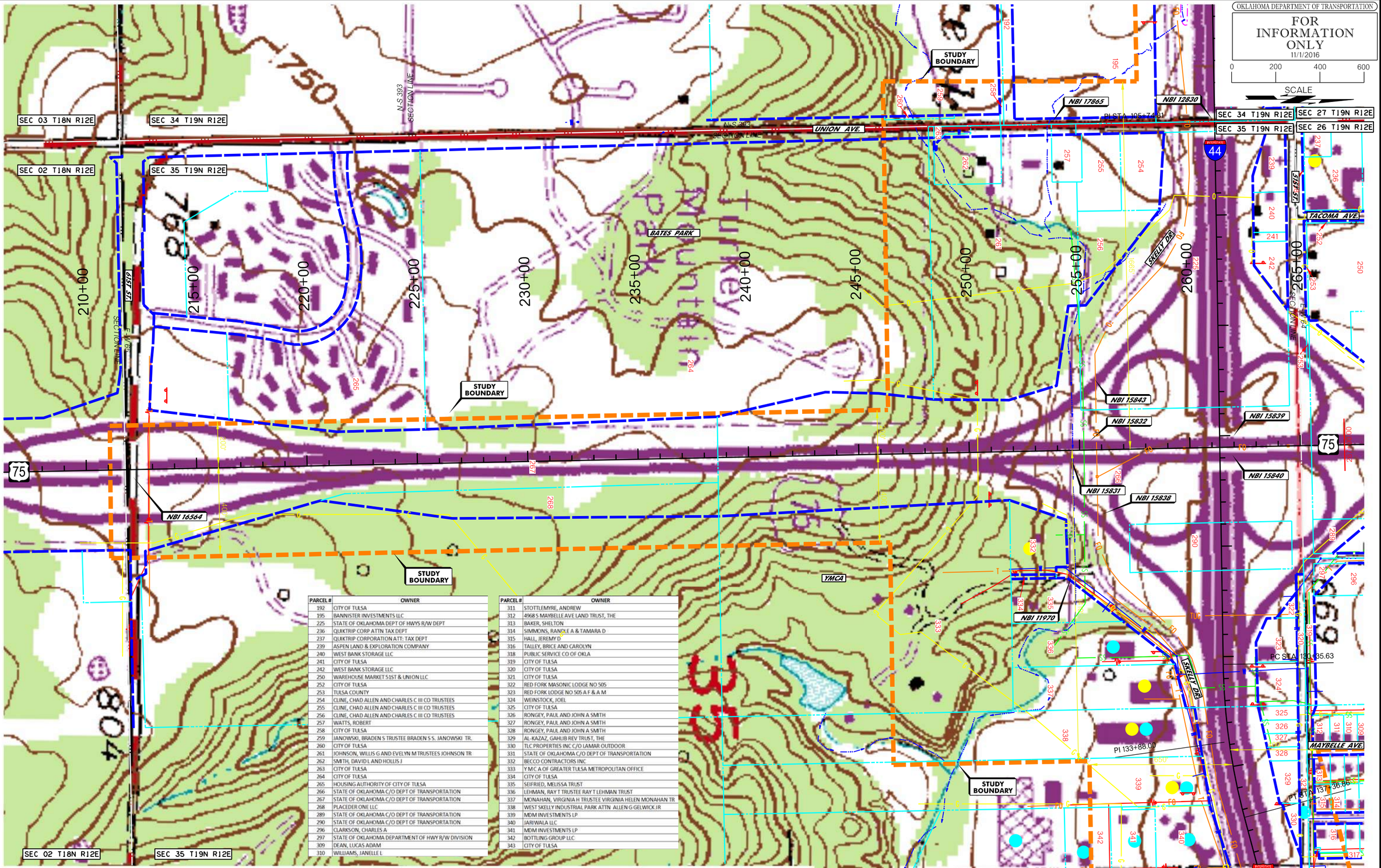

PARCEL #	OWNER
192	CITY OF TULSA
195	BANNISTER INVESTMENTS LLC
225	STATE OF OKLAHOMA DEPT OF HWYS R/W DEPT
236	QUIKTRIP CORP ATTN TAX DEPT
237	QUIKTRIP CORPORATION ATT: TAX DEPT
239	ASPEN LAND & EXPLORATION COMPANY
240	WEST BANK STORAGE LLC
241	CITY OF TULSA
242	WEST BANK STORAGE LLC
250	WAREHOUSE MARKET 51ST & UNION LLC
252	CITY OF TULSA
253	TULSA COUNTY
254	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
255	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
256	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES
257	WATTS, ROBERT
258	CITY OF TULSA
259	JANOWSKI, BRADEN S TRUSTEE BRADEN S S. JANOWSKI TR.
260	CITY OF TULSA
261	JOHNSON, WILLIS G AND EVELYN M TRUSTEES JOHNSON TR
262	SMITH, DAVID L AND HOLLIS J
263	CITY OF TULSA
264	CITY OF TULSA
265	HOUSING AUTHORITY OF CITY OF TULSA
266	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
267	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
268	PLACEDER ONE LLC
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
290	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
296	CLARKSON, CHARLES A
297	STATE OF OKLAHOMA DEPARTMENT OF HWY R/W DIVISION
309	DEAN, LUCAS ADAM
310	WILLIAMS, JANELLE L

PARCEL #	OWNER
311	STOTTLEMYRE, ANDREW
312	4968 S MAYBELLE AVE LAND TRUST, THE
313	BAKER, SHELTON
314	SIMMONS, RANDLE A & TAMARA D
315	HALL, JEREMY D
316	TALLEY, BRICE AND CAROLYN
318	PUBLIC SERVICE CO OF OKLA
319	CITY OF TULSA
320	CITY OF TULSA
321	CITY OF TULSA
322	RED FORK MASONIC LODGE NO 505
323	RED FORK LODGE NO 505 A F & A M
324	WEINSTOCK, JOEL
325	CITY OF TULSA
326	RONGEY, PAUL AND JOHN A SMITH
327	RONGEY, PAUL AND JOHN A SMITH
328	RONGEY, PAUL AND JOHN A SMITH
329	AL-KAZAZ, GAHLIB REV TRUST, THE
330	TLC PROPERTIES INC C/O LAMAR OUTDOOR
331	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
332	BECCO CONTRACTORS INC
333	Y M C A OF GREATER TULSA METROPOLITAN OFFICE
334	CITY OF TULSA
335	SEIFRIED, MELISSA TRUST
336	LEHMAN, RAY T TRUSTEE RAY T LEHMAN TRUST
337	MONAHAN, VIRGINIA H TRUSTEE VIRGINIA HELEN MONAHAN TR
338	WEST SKELLY INDUSTRIAL PARK ATTN ALLEN G GELWICK JR
339	MDM INVESTMENTS LP
340	JARIWALA LLC
341	MDM INVESTMENTS LP
342	BOTTLING GROUP LLC
343	CITY OF TULSA

LEGEND

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- FIBER OPTIC
- GAS LINE
- TELEPHONE UNDERGROUND
- WATER
- OIL LINE
- POWER UNDERGROUND
- SANITARY SEWER
- OVERHEAD TELEPHONE LINE
- EXISTING RIGHT-OF-WAY
- PROPERTY LINE
- DATA COLLECTION AREA
- STREAM FLOWLINE
- TRADEFIXTURE
- UST/AST SITE
- POTENTIAL HAZARDOUS
- MATERIALS SITE
- LUST/LAST SITE
- WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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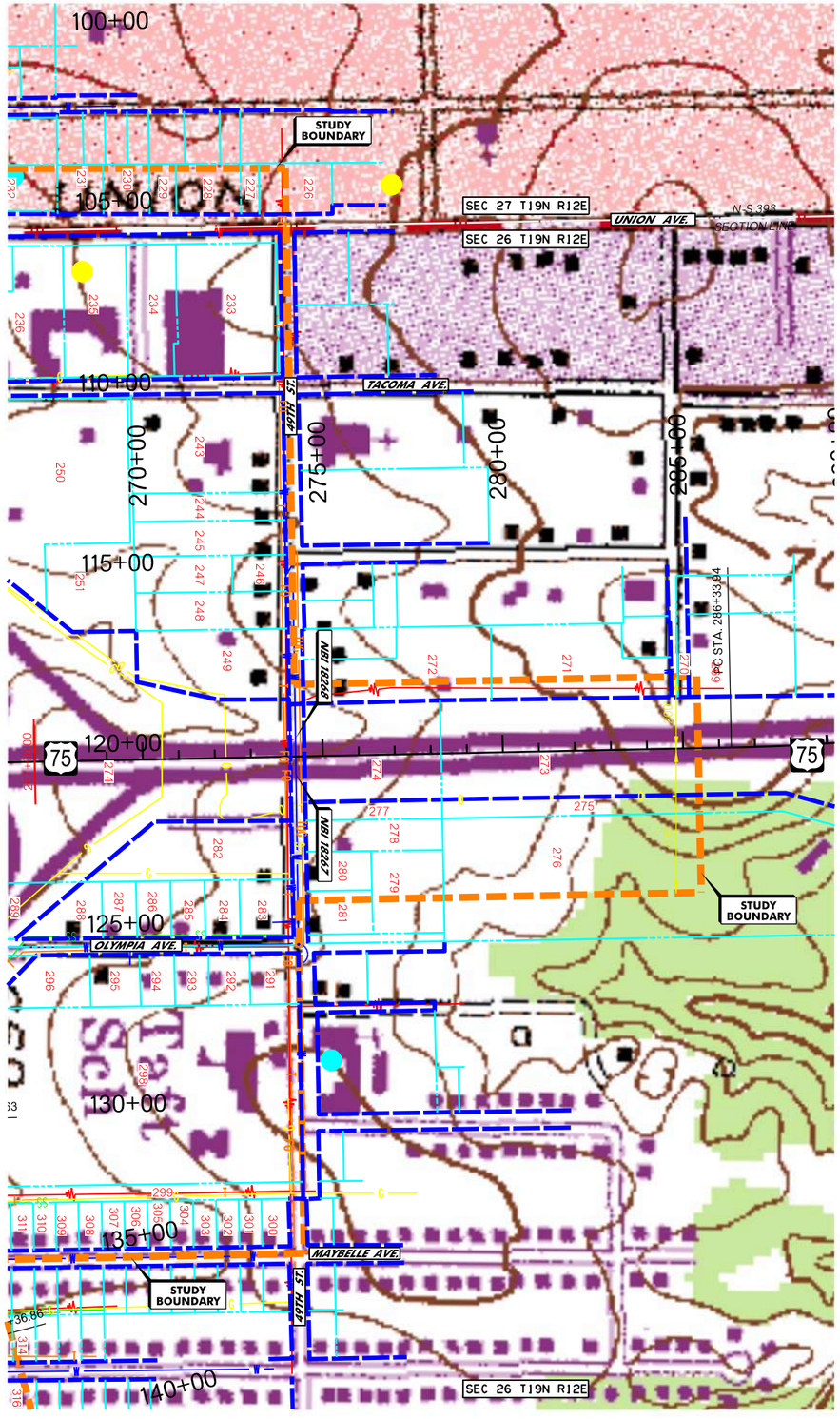

PARCEL #	OWNER
226	LOLLIS, JACK & SUSAN
227	PAREKH, A JASHVANT AND MALTI J AND JASHVANTBHAI
228	CLARY, ARTHUR M SR AND EDYTHE TRUSTEES CLARY TR
229	SOUTHWEST PROPERTIES REALTY
230	CRW PROPERTIES INC
231	PLEASANT PROPERTIES LLC
232	LINC PROPERTIES LLC
233	SHADOWBROOK PROPERTIES LLC
234	RONGEY, PAUL D AND JOHN A SMITH
235	501 S LEWIS LLC
236	QUIKTRIP CORP ATTN TAX DEPT
243	BRADY RESIDENTIAL PROPERTIES LLC
244	DEUTSCHE BANK NATIONAL TRUST CO TTEE
245	LAHR, CARL E AND RITA A
246	BERCHER, ANNICE M & RANDY ROBERT
247	BERCHER, ANNICE M & RANDY ROBERT
248	CROSSROADS FULL GOSPEL CHURCH
249	CROSSROADS PENTECOSTAL CHURCH OF GOD INC
250	WAREHOUSE MARKET 51ST & UNION LLC
251	ASPEN SQUARE INC
269	COCHRAN, MICHAEL RAY REV TRUST C/O MICHAEL RAY COCHRAN TTEE
270	CITY OF TULSA
271	CLINE, CHARLES C JR AND BETTE L TRUSTEES CHARLES C JR &
272	DILL, KIMBERLY KAY
273	STATE OF OKLAHOMA
274	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV
275	ENBRIDGE PIPELINES LLC C/O RIGHT OF WAY DEPARTMENT
276	CASEY, RHONDA L
277	TEXAS EMPIRE PIPE LINE CO C/O ENBRIDGE PIPELINES (OZARK)
278	BROWN, JIMMY L AND KATHLEEN L
279	BIVINS, LOYD AND MARSHA
280	SHERFIELD, NANETTE
281	NEWPORT, DANIEL E AND MARLA J
282	1118 W 49TH ST TRUST
283	DELOZIER, JENNIFER
284	MORRIS, C PHILIP & JANICE LIVING TRUST
285	HYDE, NORMA J TRUSTEE NORMA J HYDE TRUST
286	HALL, THOMAS R & MARY M CO TTEES THOMAS R & MARY M HALL FAMILY
287	ROUDABUSH, STEPHANIE
288	MARTINEZ, JAMES L AND APRIL S
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION
291	SOLOMON, WAYNE AND DEBORAH
292	ROBINSON, PAUL T AND ANNA MAE
293	MCLENDON, JAMES T AND ROBERTA
294	CARR, WILLIAM C AND JUDITH A
295	HORN, SIDNEY L
296	CLARKSON, CHARLES A
298	WINNETKA HEIGHTS BAPTIST CHURCH OF TULSA
299	PUBLIC SERVICE CO OF OKLA
300	OAKLEY PROPERTIES LLC
301	CLUBB, PEGGY LOIS LIVING TRUST C/O PEGGY LOIS CLUBB TTEE
302	COCHRAN, HELGA
303	CARPENTER, CLARA D
304	STONE, GENIE M
305	ELLINGTON, JUSTIN
306	BORK, ADAM J AND PATRICIA L
307	MCDEVITT, PEGGY JO TRUSTEE PEGGY JO MCDEVITT REV TRUST
308	PETERSEN, NEAL E
309	DEAN, LUCAS ADAM
310	WILLIAMS, JANELLE L
311	STOTTLEMYRE, ANDREW
314	SIMMONS, RANDLE A & TAMARA D
316	TALLEY, BRICE AND CAROLYN

OKLAHOMA DEPARTMENT OF TRANSPORTATION

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SCALE

LEGEND

POWERLINE
FIBER OPTIC
GAS LINE
TELEPHONE UNDERGROUND
WATER
OIL LINE
POWER UNDERGROUND
SANITARY SEWER
OVERHEAD TELEPHONE LINE
EXISTING RIGHT-OF-WAY
PROPERTY LINE
DATA COLLECTION AREA
STREAM FLOWLINE
TRADEFIXTURE
UST/AST SITE
POTENTIAL HAZARDOUS MATERIALS SITE
LUST/LAST SITE
WETLAND (FIELD IDENTIFIED)

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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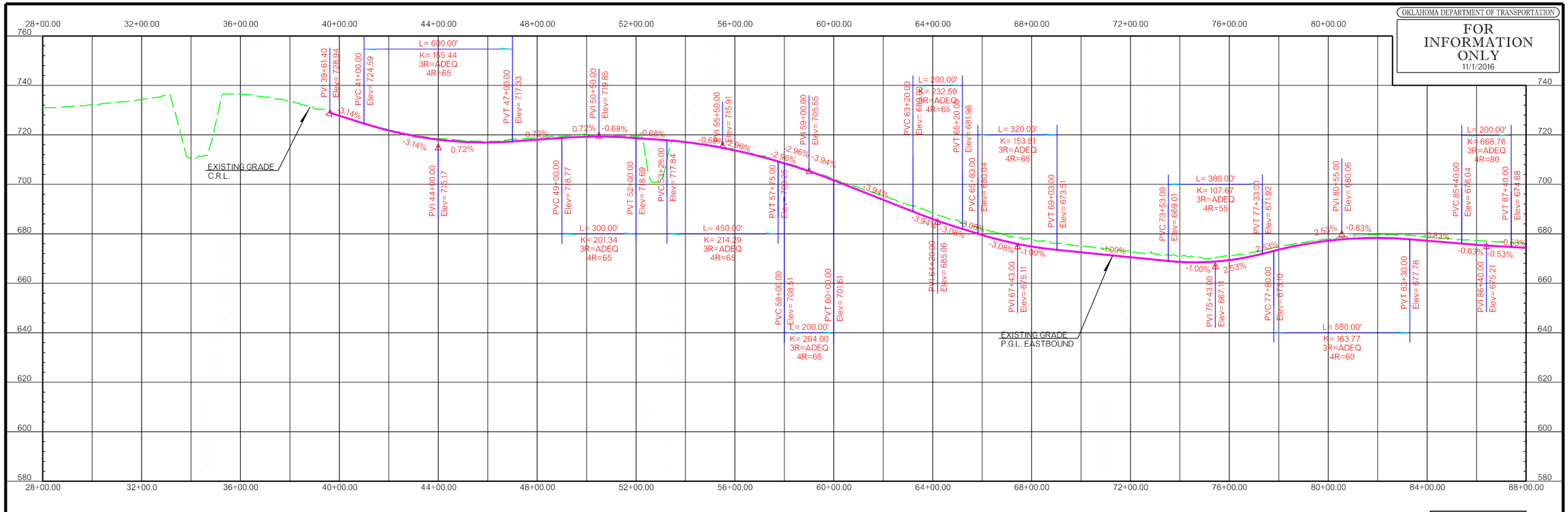
I-44 EASTBOUND



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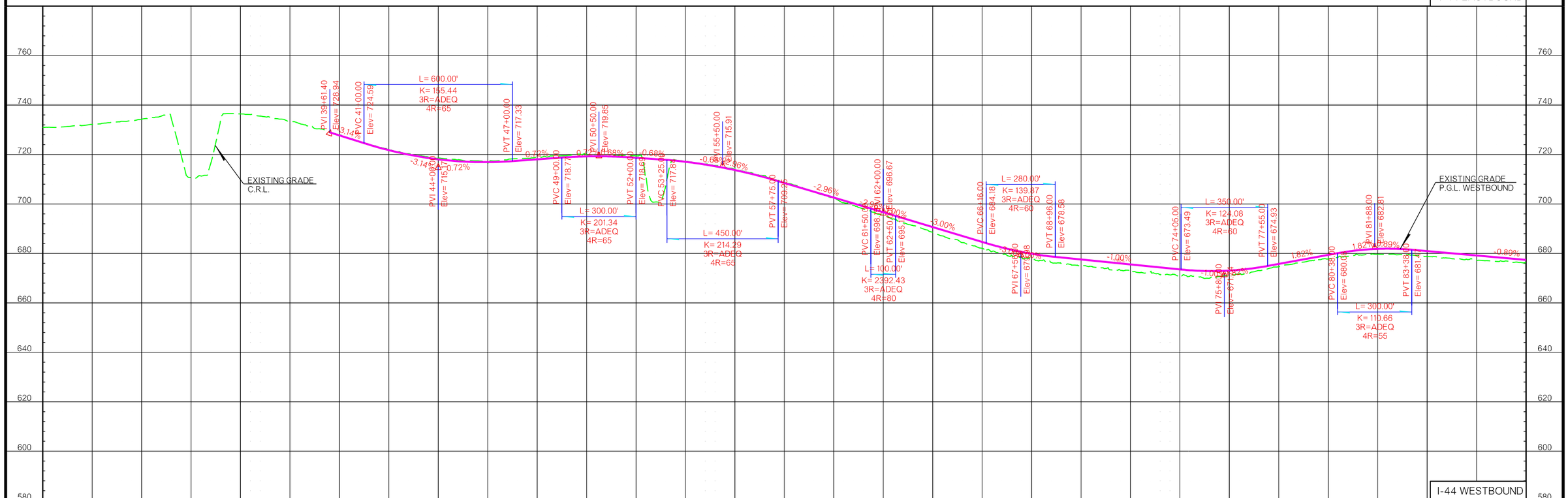

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

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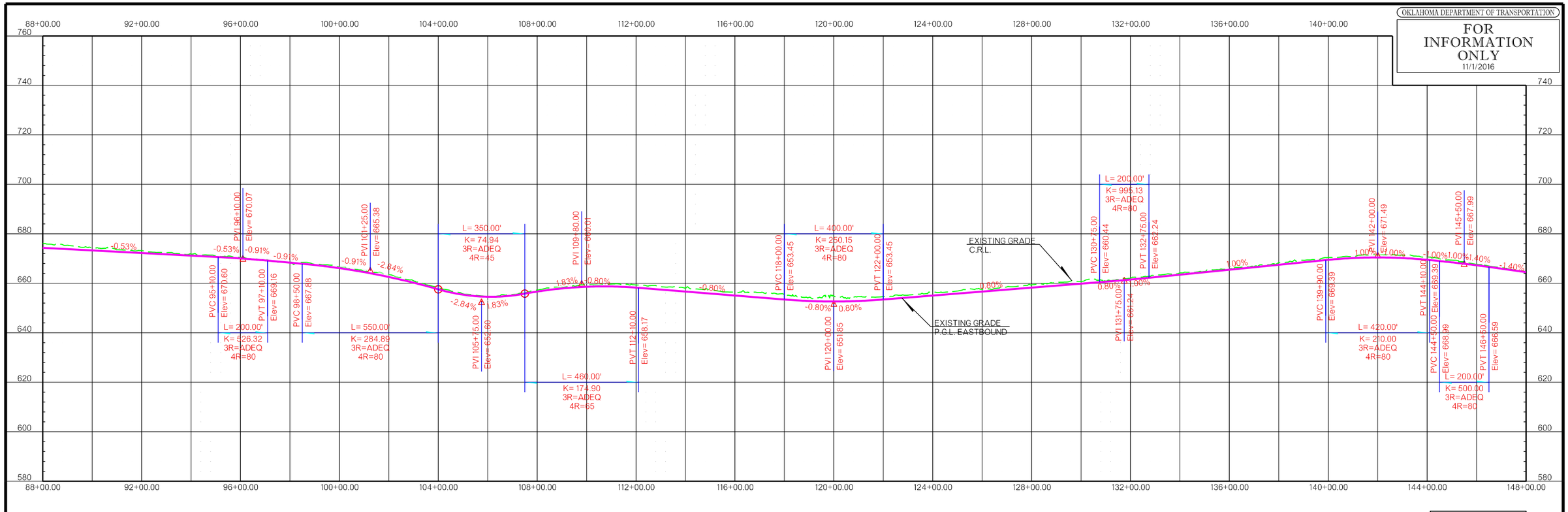
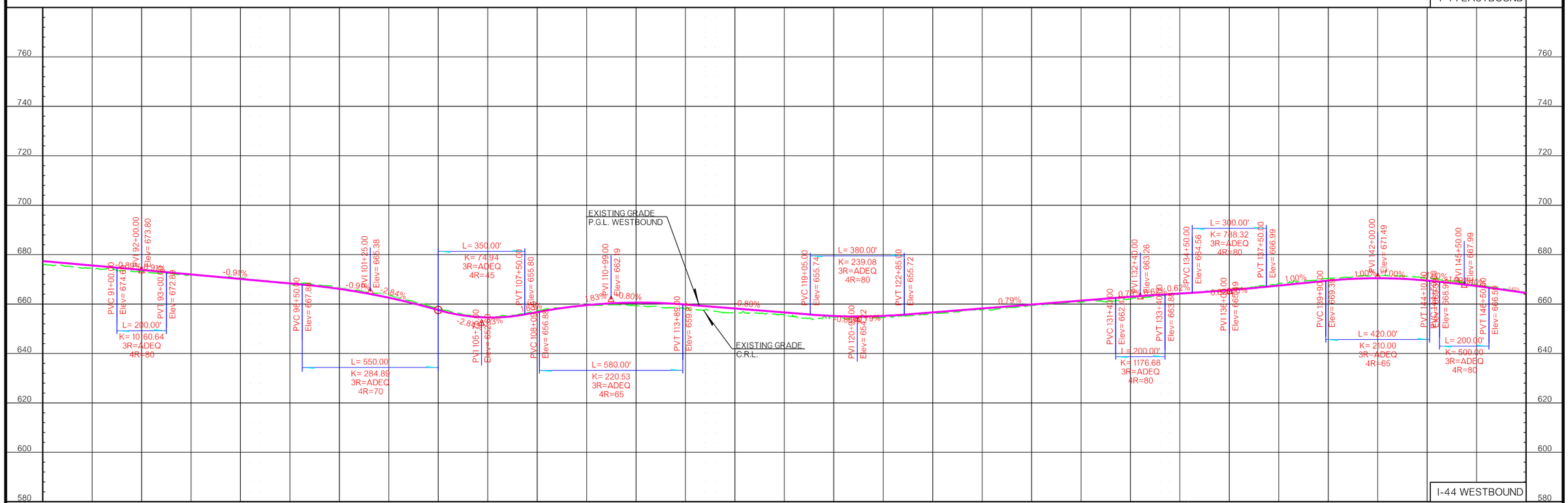


I-44 EASTBOUND



I-44 WESTBOUND

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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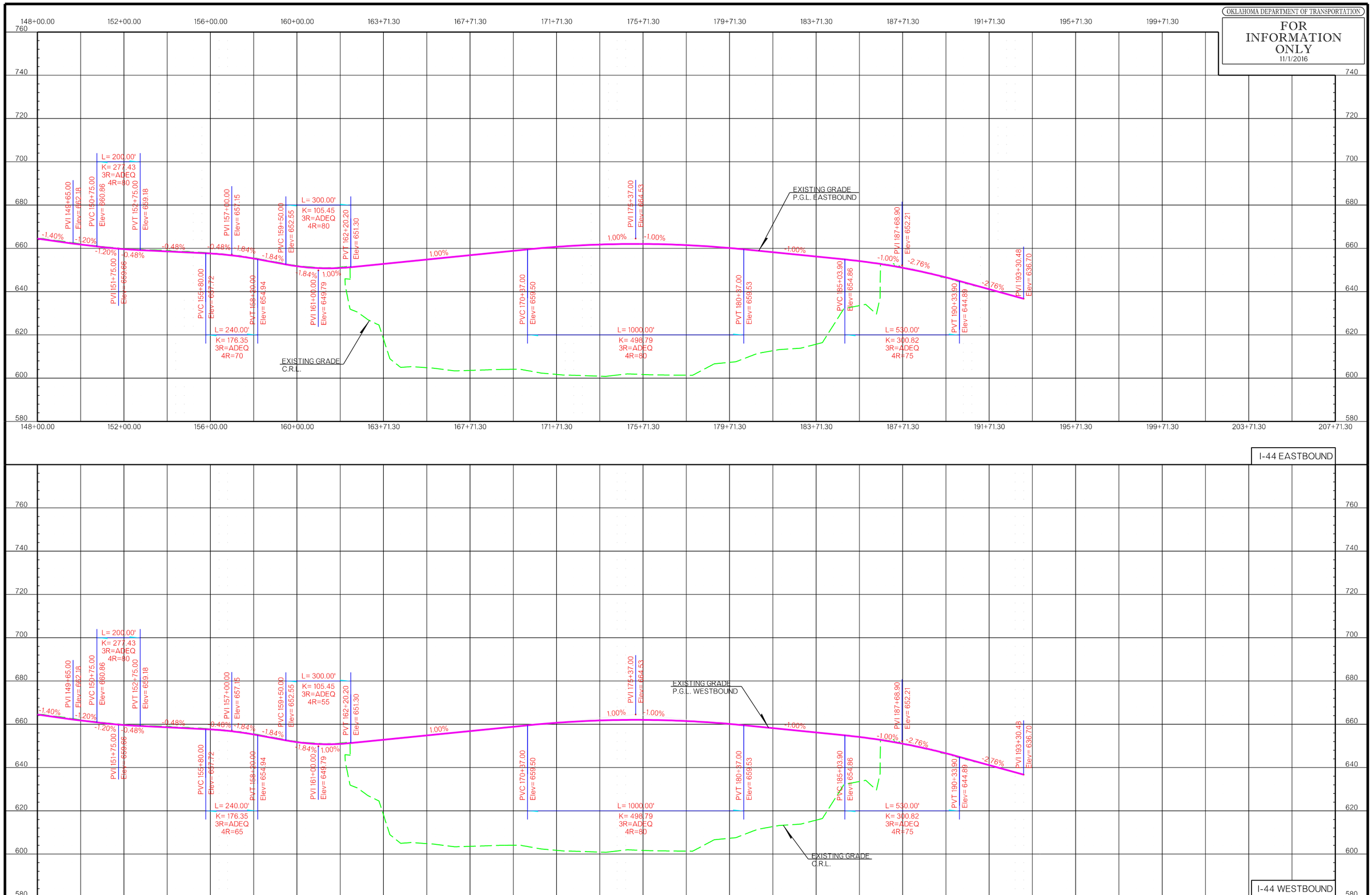

I-44 EASTBOUND

I-44 WESTBOUND

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COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
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US-75 SOUTHBOUND

PVI 232+00.00
Elev= 748.40

-3.50%

L= 800.00'
K= 147.61
3R=ADEQ
4R=65

PVC 252+20.00
Elev= 677.70

-3.50%

1.92%

PVI 256+20.00
Elev= 663.70

1.92%

PVT 260+20.00
Elev= 671.38

1.92%

US-75 NORTHBOUND

PVI 232+00.00
Elev= 748.40

-3.50%

L= 800.00'
K= 147.61
3R=ADEQ
4R=65

PVC 252+20.00
Elev= 677.70

-3.50%

1.92%

PVI 256+20.00
Elev= 663.70

1.92%

PVT 260+20.00
Elev= 671.38

1.92%

COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

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OKLAHOMA DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
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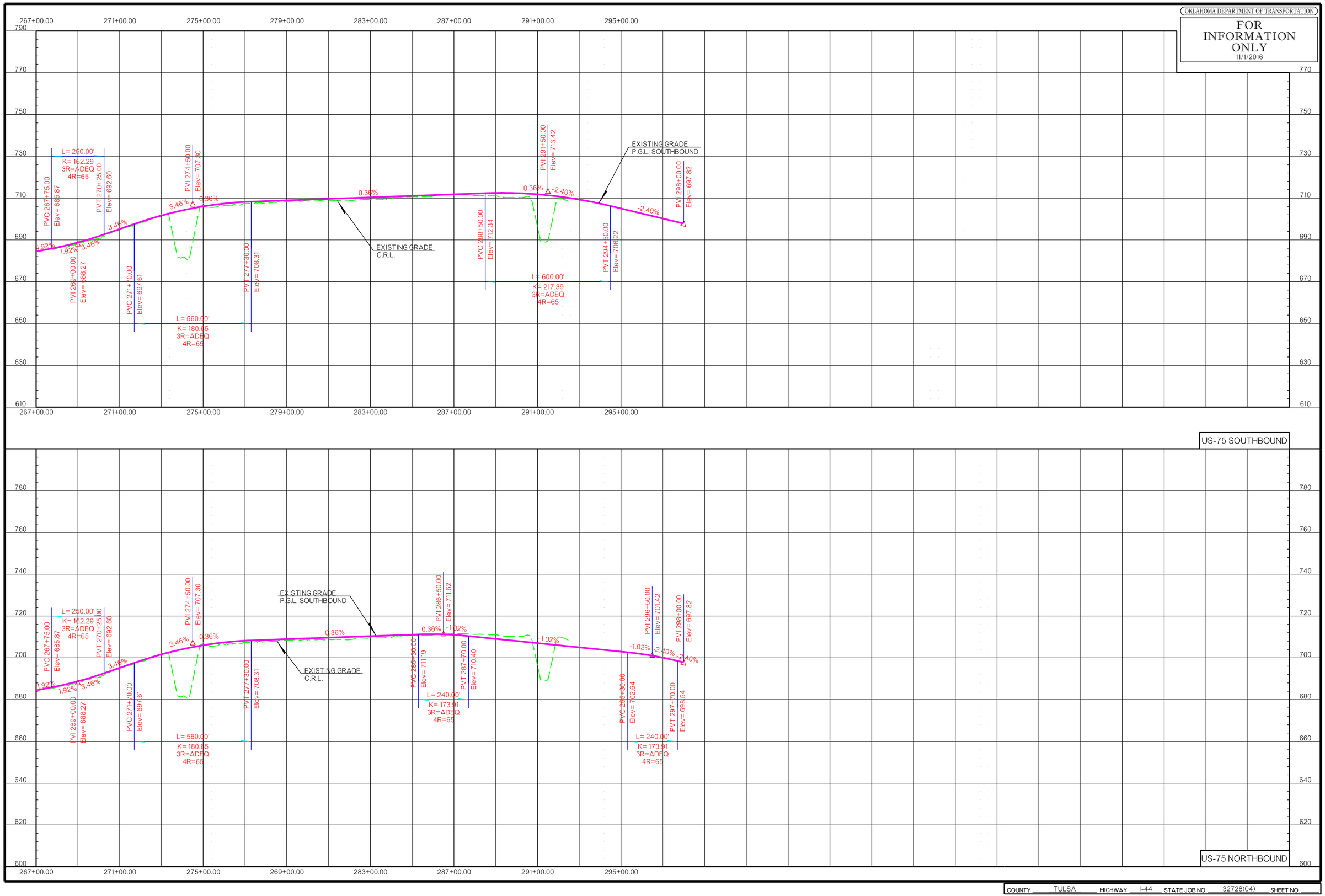

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COUNTY TULSA HIGHWAY I-44 STATE JOB NO. 32728(04) SHEET NO.

Property Identification

6450 South Lewis
Suite 300
Tulsa, OK 74136

TEL 918.250.5922
FAX 918.858.0107

www.GarverUSA.com

Section 3
Property Identification Summary
I-44 Corridor from I-244 Junction East to the Arkansas River
Tulsa County JP 32728(04)

3.1 Property Ownership

Property owner information for parcels located within the study area are included in this section.

3.2 Indian and Tribal Ownership

There is no Indian or Tribal Ownership identified within the study area. This information was obtained from property card searches, USGS's The National Map application (http://viewer.nationalmap.gov/viewer/), and the USGS Protected Areas Database (PAD) viewer (http://gis1.usgs.gov/csas/gap/viewer/padus/Map.aspx).

3.3 Federal Properties and Easements

There are no federal properties or easements within the study area. This information was obtained from property card searches, the USGS PAD viewer (http://gis1.usgs.gov/csas/gap/viewer/padus/Map.aspx), the NRCS Stewardship Lands Easement Locations Public Viewer (http://nrcs.maps.arcgis.com/apps/webappviewer/index.html?id=60cb4564f7b4461ca9a61fa224c066ba), and communication with the local NRCS office.

3.4 Wetland Restoration Program (WRP) Sites

There are no WRP sites within the study area. This information was obtained from communication with the local NRCS office and from the NRCS Stewardship Lands Easement Locations Public Viewer (http://nrcs.maps.arcgis.com/apps/webappviewer/index.html?id=60cb4564f7b4461ca9a61fa224c066ba).

3.5 Public Parks and Recreation Areas

According to the National Gap Analysis Program (GAP), Protected Areas Database Viewer (http://gis1.usgs.gov/csas/gap/viewer/padus/Map.aspx), there are no public parks or recreation areas located in the study area. However, according to Eve Atkinson of the Oklahoma Tourism and Recreation Department, there are two trails (Riverside Trails) that run north and south along the Arkansas River at the east end of the study area that were improved with

LWCF funds. Additionally, Bales Baseball Complex (property card #264) is a park located near the center of the study area that is owned by the City of Tulsa Parks Department. Turkey Mountain Park and Schlegel Park are two additional parks in the vicinity of the study area but outside of the study area boundary. Turkey Mountain Park was acquired with funds from the Tulsa River Parks Authority and Schlegel Park with funds from LWCF.

3.6 Wildlife and Waterfowl Refuges

There are no wildlife or waterfowl refuges located within the study area. This information was obtained from the USGS PAD viewer (http://gis1.usgs.gov/csas/gap/viewer/padus/Map.aspx), and the OK Department of Wildlife Conservation.

3.7 Cemeteries

There are no cemeteries within the study area.

3.8 Airports

Richard Lloyd Jones Jr. Airport, a publically owned airfield, is located approximately 2.3 miles southeast of Highway 75 and I-44. This information was obtained from the FAA List of Airport Information and Contact Data (http://www.faa.gov/airports/airport_safety/airportdata_5010/).

3.9 Railroads and Military Properties

The Tulsa Sapulpa Union Railroad (TSU; Class III Railroad) crosses through the study area at the west end of the site. Additionally, both the Union Pacific Railroad (UP; Class I Railroad) and the Tulsa Sapulpa Union Railroad (TSU; Class III Railroad) utilize the same line that crosses the study area near the east end of the project location. This information was obtained from the Oklahoma State Railroad Map.

3.10 Oklahoma Turnpike Authority (OTA) Properties

There are no OTA properties within the study area.

3.11 Demographics

Data from 2014 American Community Survey were investigated to determine the presence of low-income and minority populations in the I-44 study area. Table 1 below summarizes the demographic data. Review of this data suggest that the majority of the study area contains low-income and minority populations in greater concentrations than the state or Tulsa County as a whole. These concentrations are particularly high south of I-44.

Table 1-1: Demographic Data (2014 American Community Survey)

Geography	Population	Income Data		Race Data (%)					
		Median House hold Income	Percent of People with Income Below the Poverty Line (2013)	White	Black or African American	American Indian & Alaska Native	Asian	Other Race	Hispanic (of any race)
Oklahoma	3,818,851	$46,235	16.9	73.3	7.3	7.2	1.9	2.5	9.4
Tulsa County	616,128	$48,926	15.8	71.6	10.2	4.7	2.5	3.4	11.4
Tract 48	4,161	$37,145	22.7	75.5	1.7	8.1	0	3.0	9.0
Tract 49	1,982	$40,950	14.7	65.7	8.7	7.1	0	2.0	12.5
Tract 67.01	3,163	$31,681	34.9	51.4	22.7	8.2	0	6.3	13.1

The figures below illustrate the percentages of low-income and minority populations in the I-44 study area.

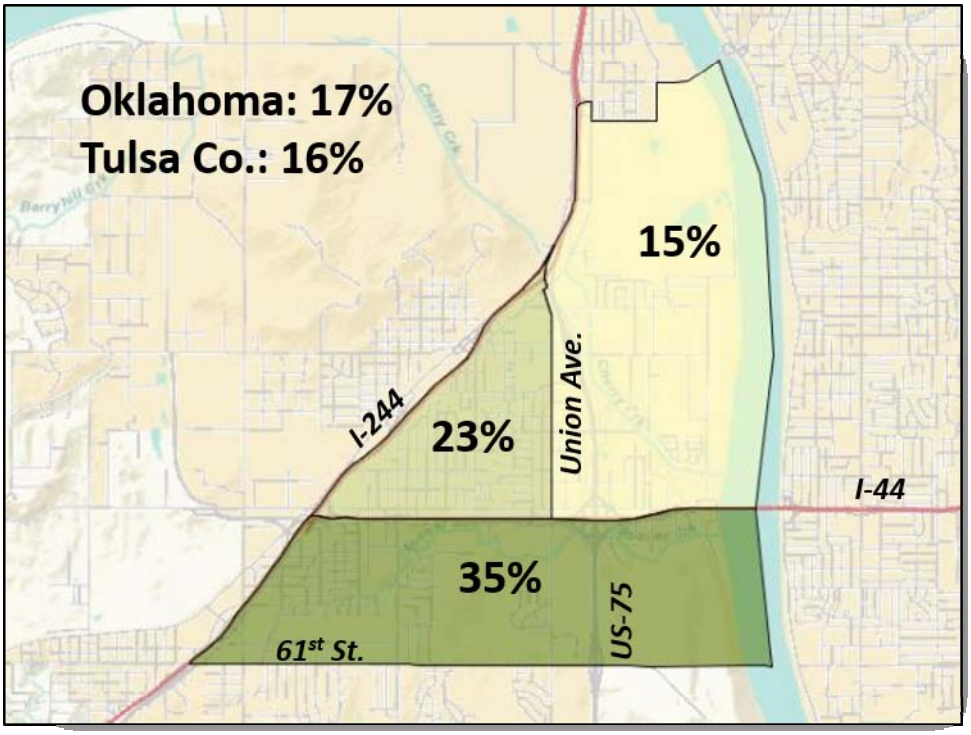

Figure 1: Low-Income Populations

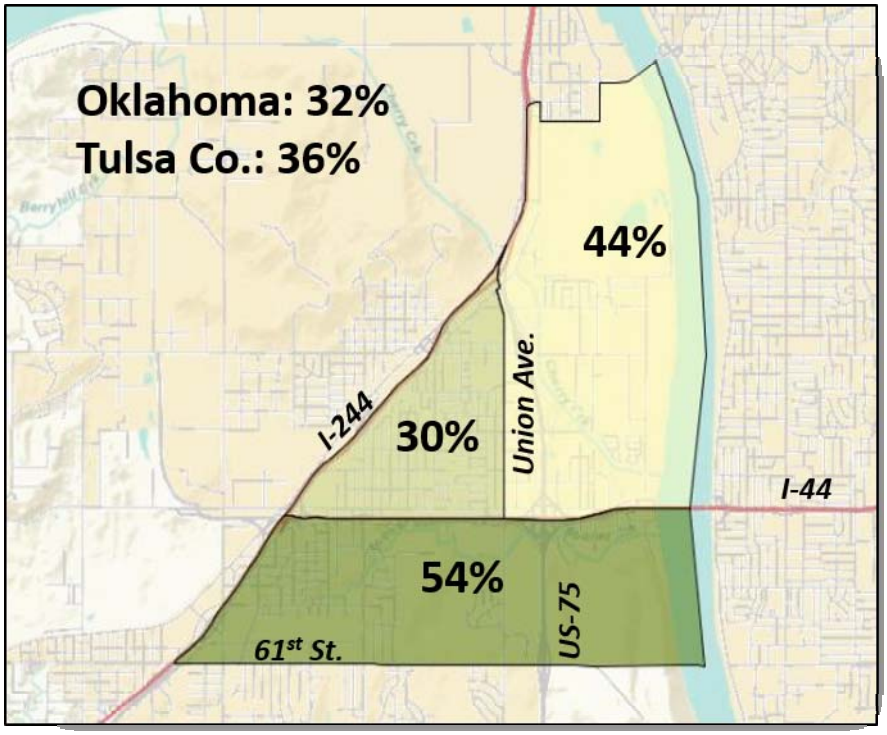

Figure 2: Minority Populations

Schmidt, Cassie P.

From: Eve Atkinson <Eve.Atkinson@travelok.com>
Sent: Friday, September 30, 2016 3:39 PM
To: Schmidt, Cassie P.
Cc: Susan Henry; Matt Meyer (mattmeyer@riverparks.org)
Subject: RE: Request for Park/Recreation Area Information--I-44 from I-244 Junction east to the Arkansas River in Tulsa County

Categories: Filed by Newforma

Ms. Schmidt,

The following observations are reported below regarding your request. The Riverside Drive Trail and possibly Turkey mountain could be significantly adversely impacted by expansion of transportation structures or restrictive right-of-way policies. Please keep us informed and cooperate with the River Parks Authority and the City of Tulsa to develop mitigation measures.

In the study area at Riverside Drive and I-44: Tulsa River Parks Trail Improvements on Riverside Trail, improved with LWCF funds, 1981 thru 1985, $26,776.00
****
Near, or in study area on the west side of US 75: Bales baseball Complex, 5801 S. Union Avenue. Not acquired with LWCF, but City of Tulsa Parks department.

Near or in study area along US 75: Turkey Mountain Park on the west bank of the Arkansas River, east of Elmwood Ave. and south of West 61st Street South. Project 40-00654, Turkey Mountain Wilderness Park, acquired with Tulsa River Parks $398,070, 1978 to 1983 total 90 acres. Tulsa River Parks Authority should have the exact boundaries. (we don't have the exact boundaries)

Probably NSAI
Near study area: Schlegel Park at 3825 W 53RD PL S, LWCF 40-00371, split between 6 parks, constructed with $225,656.00 by City of Tulsa, during 1973 to 1978. South boundary is 660 feet south of the section line upon which you find I-244

Eve L. Atkinson, Planner ll
Oklahoma State Parks
Oklahoma Tourism and Recreation Department
900 North Stiles, Suite 200
Oklahoma City, OK 73104-3234

405.522.9516.
Eve.Atkinson@travelok.com

From: Schmidt, Cassie P. [mailto:CPSchmidt@garverusa.com]
Sent: Tuesday, September 20, 2016 1:53 PM
To: Eve Atkinson
Cc: McCullough, Kirsten J.
Subject: Request for Park/Recreation Area Information--I-44 from I-244 Junction east to the Arkansas River in Tulsa County

Ms. Atkinson,

We are working on a data reconnaissance project in Tulsa County and collecting information for a 900 to 1,500-foot wide study area centered along I-44 beginning at the I-244 Interchange and extending approximately 2.9 miles east to the Arkansas River. Additionally, the study area encompasses approximately 1.4 miles of Highway 75. The project is located within Township 19N Range 12E in Sections 25-28 and 33-36; and within Township 18N Range 12E in Section 2.

We would appreciate your assistance with the identification of any parks or recreation areas in the vicinity of the project, specifically including any parks receiving LWCF funding assistance. I have attached a PDF showing two general location maps for your reference. Please let me know if you need anything else.

Sincerely,

Cassie Schmidt
Environmental Scientist/Environmental Specialist
Transportation Team
Office: 479-527-9100

Tulsa County
EC-1780
I-44 from I-244 Junction East to the Arkansas River

PARCEL #	OWNER	TAX ID	SITE ADDRESS	OWNER ADDRESS	CITY	STATE	ZIP
001	LINPEN INVESTMENTS LLC	R99228922831370	3801 W 51 ST S TULSA 000000000	PO BOX 9471	Tulsa	OK	74157
002	ADETULA, AMOS OLATUNDE	R53175922807700	TULSA 000000000	5000 E 94TH ST N	Sperry	OK	74073
003	GLEANOR MISSIONARY SOCIETY INC	R99228922831770	741070000	PO BOX 571097	Tulsa	OK	74157
004	IGLESIA OESTE ASAMBLEA DE DIOS INC	R06675922801530	3615 W 51 ST S TULSA 741070000	4013 WEST 68TH COURT	Tulsa	OK	74107
005	BERCHER, TRAVIS	R06675922801500	5040 S 36 AV W	11585 N 36TH WEST AVE	Sperry	OK	74073
006	MORENO, ANDREW A IV	R06675922801510	5044 S 36 AV W	5044 S 36TH WEST AVE	Tulsa	OK	74107
007	LUGINBILL, SANDRA S	R06675922801520	5048 S 36 AV W	823 E PINE AVE	Enid	OK	73701
008	MILLER, MATTHEW O & KRISTIE G	R06675922801690	5039 S 36 AV W TULSA 000000000	3405 W 110TH ST	Jenks	OK	74037
009	ABEL, MARY ANN	R06675922801680	5043 S 36 AV W	5043 S 36TH W AVE	Tulsa	OK	741077403
010	ROWE, JAMES	R06675922801670	5047 S 36 AV W	5047 S 36TH WEST AVE	Tulsa	OK	74107
011	JOHNSON REAL ESTATE PROPERTIES LLC	R06675922801640	5040 S 35 AV W	5928 W 43RD ST	Tulsa	OK	74107
012	DAVIS, CATHY LEE	R06675922801650	5044 S 35 AV W	5044 S 35TH W AVE	Tulsa	OK	741077434
013	ELMORE, JESSICA L	R06675922801660	5048 S 35 AV W	5048 S 35TH WEST AVE	Tulsa	OK	74107
014	TUCKER, RAYMOND L & EMILE D	R06675922801930	5039 S 35 AV W	PO BOX 1909	Sand Springs	OK	74063
015	BLAKE, KEVIN	R06675922801920	5043 S 35 AV W	8812 E 110TH ST	Tulsa	OK	74133
016	KEMPER, PAULA K	R06675922801910	5047 S 35 AV W	3412 W 51ST ST	Tulsa	OK	74107
017	CARTER, CHRISTOPHER M & MADELINE P	R06675922801880	5040 S 34 AV W TULSA 741070000	5040 S 34TH W AVE	Tulsa	OK	74107
018	WALLS, KRISTIN C R	R06675922801890	5044 S 34 AV W TULSA 000000000	5044 S 34TH WEST AVE	Tulsa	OK	74107
019	WHEAT, LAWRENCE WESLEY & ROSA MAE TTEES	R06675922801900	5048 S 34 AV W	4735 S 32ND WEST AVE	Tulsa	OK	74107
020	DENNEY, CHARLES JASON	R06675922802150	5039 S 34 AV W	5039 S 34TH W AVE	Tulsa	OK	74107
021	FIELDS, BOBBY LAWRENCE AND SANDRA K	R06675922802140	5043 S 34 AV W	3702 S 63RD WEST AVE	Tulsa	OK	74107
022	BRUDER, DANIEL LLOYD	R06675922802130	5047 S 34 AV W TULSA 000000000	5047 S 34TH WEST AVE	Tulsa	OK	74107
023	RETAIL BUILDINGS INC C/O JACOBI & ASSOC	R06675922802110	5048 S 33 AV W TULSA 000000000	PO BOX 702377	Tulsa	OK	741702377
024	CITY OF TULSA	R06675922802109	TULSA 000000000	175 E 2ND ST STE 260	Tulsa	OK	74103
025	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV	R38975923308760		200 NE 21ST ST	Oklahoma City	OK	731053204
026	LUGINBILL, SANDRA S	R38975923308700	SAPULPA 000000000	823 W PINE AVE	Enid	OK	73701
027	LUGINBILL, SANDRA S	R38975923308690	SAPULPA 000000001	823 W PINE AVE	Enid	OK	73701
028	LUGINBILL, SANDRA S	R38975923308680	3704 W 51 ST S TULSA 000000000	823 W PINE AVE	Enid	OK	73701
029	VANN, JAMES ELMER	R35075923302210	3624 W 51 ST S	PO BOX 9301	Tulsa	OK	741570301
030	GRODEN, JAMES E AND ROZENA R	R35075923302215	3620 W 51 ST S	3620 W 51ST ST	Tulsa	OK	741077347
031	STACY, SHEILA JEAN	R35075923302220	3616 W 51 ST S TULSA 000000000	3616 W 51ST ST	Tulsa	OK	74107
032	OAKLEY PROPERTIES LLC	R35075923302225	3612 W 51 ST S TULSA 000000000	4235 S 33RD WEST AVE	Tulsa	OK	741075904
033	OAKLEY PROPERTIES LLC	R35075923302200	5104 S 36 AV W	4235 S 33RD WEST AVE	Tulsa	OK	741075904
034	REED, SHERRY KATHLEEN	R35075923302240	5112 S 36 AV W	3911 S 55TH WEST AVE	Tulsa	OK	74107
035	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV	R35075923302010		200 NE 21ST ST	Oklahoma City	OK	731053204
036	GLENCO INVESTMENTS LLC	R35075923302130	3522 W 51 ST S TULSA 000000000	6201 KLUSMAN AVE	Alta Loma	CA	91737
037	LUGINBILL, SANDRA S	R35075923302110	3518 W 51 ST S	823 E PINE AVE	Enid	OK	73701
038	SHORES, ORVILLE DUNCAN-DONNIE LLC	R35075923302120	5105 S 36 AV W	2626 W SKELLY DR	Tulsa	OK	74107
039	BRYAN, PATRICK S AND JAMIE D	R35075923302105	3516 W 51 ST S	3516 W 51ST ST	Tulsa	OK	741077418
040	ROSAS, ALICIA	R35075923302100	3514 W 51 ST S	3514 W 51ST ST	Tulsa	OK	74107
041	MEDINA, ABEL AND ANITA	R35075923302080	3506 W 51 ST S	3506 W 51ST ST	Tulsa	OK	741077418
042	CLANTON, JIM D AND TERI D	R01700923300120	3418 W 51 ST S	3418 W 51ST ST	Tulsa	OK	74107
043	KEMPER, PAULA K	R01700923300110	3412 W 51 ST S	3412 W 51ST ST	Tulsa	OK	74107
044	HALL, JERRY L & SHANE LOWE	R01700923300100	3408 W 51 ST S	PO BOX 690292	Tulsa	OK	741690292
045	BLUESTONE PROPERTIES LLC	R01700923300090	3404 W 51 ST S TULSA 000000000	5880 S MINGO RD	Tulsa	OK	74146
046	WEST, JANET SUE TTEE MARGARET L LOWERY FAMILY TR	R01700923300130	5116 S 34 AV W	C/O JANE S & BARRY WEST 5338 E 21ST PL	Tulsa	OK	74114
047	CITY OF TULSA	R01700923300140		175 E 2ND ST STE 260	Tulsa	OK	74103
048	SALDEEN, LORI A	R01700923300080	3328 W 51 ST S	3936 E 32ND PL	Tulsa	OK	74135
049	SMITH, GENE AND SARA	R01700923300070	3326 W 51 ST S	4909 S 24TH W PL	Tulsa	OK	74107

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PARCEL #	OWNER	TAX ID	SITE ADDRESS	OWNER ADDRESS	CITY	STATE	ZIP
050	ROGERS, GARY W AND DEBORAH L BROWN	R01700923300060	3320 W 51 ST S	3320 W 51ST ST	Tulsa	OK	74107
051	MAHONEY, J MELINDA	R01700923300040	5115 S 34 AV W	5115 S 34TH W AVE	Tulsa	OK	74107
052	WILLIAMSON, BILL T C/O ORVILLE JR & MARIA WILLS	R35075923302020	5108 S 33 AV W TULSA 000000000	903 PARKVIEW	Geronimo	OK	73543
053	CITY OF TULSA	R01700923300050		175 E 2ND ST STE 260	Tulsa	OK	74103
054	TULSA COUNTY	R38975923308860		500 S DENVER RM 302	Tulsa	OK	74103
055	TULSA COUNTY	R38975923308820		500 S DENVER RM 302	Tulsa	OK	74103
056	TULSA COUNTY	R38975923308840		500 S DENVER RM 302	Tulsa	OK	74103
057	TULSA COUNTY	R38975923308830		500 S DENVER RM 302	Tulsa	OK	74103
058	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV	R38975923308845		200 NE 21ST ST	Oklahoma City	OK	731053204
059	EWERS, JAMES F III TRUSTEE JAMES F EWERS III TR	R38975923308850	SAPULPA 000000000	1205 E FARGO ST	Broken Arrow	OK	74012
060	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R38975923302358		200 NE 21ST ST	Oklahoma City	OK	731053204
061	CLARK CHILDREN TRUSTS	R38975923304530	3810 W SKELLY DR S TULSA 000000000	3007 NW 63 ST STE 205	Oklahoma City	OK	73116
062	CALVERT, DANIEL E & OLETA CO-TRUSTEES DANIEL E & OLETA CALVERT REV TRUST	R38975923302350	3705 W SKELLY DR S TULSA 741070000	9305 S 43RD WEST AVE	Tulsa	OK	74132
063	TARIAH, SOLOMON B	R38975923302360		3723 W 52ND ST	Tulsa	OK	741078911
064	TARIAH, SOLOMON B	R38975923302370	3727 W 52 ST S	3723 W 52ND ST	Tulsa	OK	741078911
065	TARIAH, SOLOMON B	R38975923302380	3723 W 52 ST S	3723 W 52ND ST	Tulsa	OK	741078911
066	POLITE, VERDA MAE	R38975923302390	3725 W 52 ST S TULSA 741070000	3725 W 52ND ST	Tulsa	OK	741078911
067	TARIAH, SOLOMON B AND YEVETTE M	R38975923302400	3719 W 52 ST S	3723 W 52ND ST	Tulsa	OK	74107
068	BELL, GARFIELD AND ROSCOE JONES	R38975923302420	3713 W 52 ST S	5140 S 37TH WEST AVE	Tulsa	OK	741078938
069	BELL, GARFIELD AND ROSCOE JONES	R38975923302430	5140 S 37 AV W	5140 S 37TH W AVE	Tulsa	OK	74145
070	GILLIAM, EARL R AND LINDA J	R35075923302310	3618 W SKELLY DR S TULSA 000000000	2339 S 61ST WEST AVE	Tulsa	OK	74107
071	BRANTLEY PROPERTIES LLC	R35075923302300	5144 S 36 AV W TULSA 000000000	PO BOX 624	Jenks	OK	74037
072	ASPEN LAND & EXPLORATION COMPANY	R35075923302290	5150 S 36 AV W	PO BOX 4335	Tulsa	OK	741590335
073	DENNEY, DAN P	R54175923309620	5206 S 36 AV W	4620 S TACOMA AVE	Tulsa	OK	741078030
074	BOYLE, GUY I AND CYNTHIA L	R54175923309630	5212 S 36 AV W	3754 E 48TH ST	Tulsa	OK	74135
075	REESE, JAMES M AND REBECCA R	R35075923302180	5139 S 36 AV W	2625 W FT WORTH PL	Broken Arrow	OK	74012
076	FITCH, STEPHANIE	R35075923302190	5149 S 36 AV W TULSA 741070000	5149 S 36TH WEST AVE	Tulsa	OK	74107
077	MARTIN, C G COMPANY INC	R54175923309540	5205 S 36 AV W	PO BOX 9345	Tulsa	OK	741570345
078	MARTIN, MAXINE L TRUSTEE	R54175923309550	5211 S 36 AV W TULSA 741078908	C/O CG MARTIN CO INC PO BOX 9345	Tulsa	OK	741573045
079	K & JR LLC	R01700923300150	3418 W SKELLY DR S TULSA 000000000	10305 S 76TH EAST AVE	Tulsa	OK	741336828
080	BRAMLETT, DOROTHY C/O KENNY RUSSELL	R01700923300160	5140 S 34 AV W TULSA 000000000	10305 S 76TH EAST AVE	Tulsa	OK	741336828
081	K & JR LLC	R01700923300170	5144 S 34 AV W TULSA 000000000	10305 S 76TH EAST AVE	Tulsa	OK	741336828
082	K & JR LLC	R01700923300180	5148 S 34 AV W	10305 S 76TH EAST AVE	Tulsa	OK	741336828
083	BRADY, PATRICK B	R44125923305735	5154 S 34 AV W TULSA 000000000	5154 S 34TH WEST AVE	Tulsa	OK	74107
084	ROBERTS, ERNIE L & WILMA J	R44125923305745	5158 S 34 AV W	9900 W 81ST	Tulsa	OK	74131
085	ROBERTS, LARRY	R01700923300030	5141 S 34 AV W TULSA 741070000	5141 S 34 WEST AVE	Tulsa	OK	74107
086	CLARK, JASON RAE	R01700923300020	5145 S 34 AV W TULSA 000000000	5145 S 34TH WEST AVE	Tulsa	OK	74107
087	MCDONALD, IRENE	R01700923300010	5149 S 34 AV W	5149 S 34TH W AVE	Tulsa	OK	741078905
088	SHAHIN, WALTER & CAROL	R44125923305605	5153 S 34 AV W	5153 S 34TH W AVE	Tulsa	OK	74107
089	ABEL, ZOE M	R44125923305615	5157 S 34 AV W	5157 S 34TH W AVE	Tulsa	OK	741078905
090	SALIMI, SAJID S INC	R35075923302050	5150 S 33 AV W TULSA 000000000	5150 S 33RD W AVE	Tulsa	OK	74107
091	SALIMI, SAJID S INC	R44125923305550	5156 S 33 AV W TULSA 000000000	5150 S 33RD W AVE	Tulsa	OK	74107
092	ADAIR, TODD DAVID	R44125923305565	5162 S 33 AV W	5162 S 33RD W AVE	Tulsa	OK	74107
093	MALACHI MANAGEMENT CORP	R06625922701510	5043 S 33 AV W TULSA 000000000	5043 S 33RD WEST AVE STE 100	Tulsa	OK	74107
094	KNOWLTON TRUST	R06650923400010	5103 S 33 AV W TULSA 000000000	5107 S 33RD WEST AVE	Tulsa	OK	74107
095	MALACHI MANAGEMENT CORPORATION	R06625922701550	5038 S 32 AV W	5043 S 33RD WEST AVE STE 100	Tulsa	OK	74107
096	MALACHI MANAGEMENT CORPORATION	R06625922701540	5048 S 32 AV W	5043 S 33RD WEST AVE STE 100	Tulsa	OK	74107
097	MALACHI MANAGEMENT CORPORATION	R06625922701530		5043 S 33RD WEST AVE STE 100	Tulsa	OK	74107
098	CARBONDALE CHURCH OF CHRIST INC	R06650923400090	3210 W 51 ST S TULSA 741070000	3210 W 51 ST	Tulsa	OK	74107

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PARCEL #	OWNER	TAX ID	SITE ADDRESS	OWNER ADDRESS	CITY	STATE	ZIP
099	CARBONDALE CHURCH OF CHRIST INC	R06650923400080	3210 W 51 ST S TULSA 741070000	3210 W 51 ST	Tulsa	OK	74107
100	FORT, MERLIN D AND JOY L	R06625922701760	5039 S 32 AV W	5039 S 32ND W AVE	Tulsa	OK	74107
101	BOHLANDER, JOHN P III	R06625922701770	5043 S 32 AV W	5043 S 32ND WEST AVE	Tulsa	OK	74107
102	DUBUC, DOUG C	R06625922701780	5047 S 32 AV W TULSA 741070000	5047 S 32ND W AVE	Tulsa	OK	74107
103	CARBONDALE CHURCH OF CHRIST	R06650923400100	3114 W 51 ST S TULSA 741070000	3210 W 51 ST	Tulsa	OK	74107
104	SAND SPRINGS HOME	R06625922701810	5040 S 31 AV W TULSA 000000000	PO BOX 278	Sand Springs	OK	74063
105	SCHULTZ, TERRY M	R06625922701800	5044 S 31 AV W	5044 S 31ST WEST AVE	Tulsa	OK	74107
106	STOVER, MARGARET M TTEE ROBERT &	R06625922701790	5048 S 31 AV W TULSA 741070000	6220 S 97TH WEST AVE	Sapulpa	OK	74066
107	CARBONDALE CHURCH OF CHRIST	R06650923400170	TULSA 741070000	3210 W 51 ST	Tulsa	OK	74107
108	CARBONDALE CHURCH OF CHRIST	R06650923400160	TULSA 741070000	3210 W 51 ST	Tulsa	OK	74107
109	CARBONDALE CHURCH OF CHRIST	R06650923400150	5116 S 31 AV W TULSA 000000000	3210 W 51 ST	Tulsa	OK	74107
110	CARBONDALE CHURCH OF CHRIST	R06650923400140	5116 S 31 AV W TULSA 000000000	3210 W 51 ST	Tulsa	OK	74107
111	STATE OF OKLAHOMA C/O DEPT OF HWY R/W DIV	R06650923400020		200 NE 21ST ST	Oklahoma City	OK	731053204
112	HOPE, WEALTHIA A	R06625922703400	5037 S 31 AV W	4938 OAK LEAF DR	Tulsa	OK	74131
113	OAKLEY, SHELBY D	R06625922703410	5047 S 31 AV W TULSA 000000000	4235 S 33RD W AVE	Tulsa	OK	74107
114	BRANCHCOMB, JIMMY	R06625922703440	5044 S 30 AV W	486 E 136TH PL	Glenpool	OK	74033
115	DURBIN, DAVID J	R06625922703430	5048 S 30 AV W TULSA 000000000	4959 E 105TH ST	Tulsa	OK	741376021
116	DURBIN, DAVID J	R06625922703420		4959 E 105TH ST	Tulsa	OK	741376021
117	WAKEFIELD, WILLIAM JR	R06625922703650	5043 S 30 AV W	4702 S 27 WEST AVE	Tulsa	OK	74107
118	SMITH, JAMES M AND MELINDA K	R06625922703660	5045 S 30 AV W	2210 W 77TH ST	Tulsa	OK	74132
119	D & P PROPERTIES LLC	R06625922703670	5047 S 30 AV W	PO BOX 1203	Sand Springs	OK	74063
120	HARRY LLC	R06625922703690	5040 S 29 AV W	2973 E 77TH ST S	Tulsa	OK	74136
121	GLOVER, WANDA P	R06625922703680	2903 W 51 ST S	2903 W 51ST ST	Tulsa	OK	74107
122	VENETOFF, RICHARD	R29875922716440	2825 W 51 ST S	1002 TENNISON DR	Euless	TX	760393276
123	TOWNES, ROBERT H	R29875922716430	2823 W 51 ST S	2823 W 51ST ST	Tulsa	OK	74107
124	BROWN, HARLEY L AND BARBARA	R29875922716550	2717 W 51 ST S	2717 W 51ST ST	Tulsa	OK	741077617
125	FARRAN, RANDALL E & BARBARA LYNN	R29875922716540	5046 S 27 AV W	5046 S 27TH WEST AVE	Tulsa	OK	74107
126	LONE WOLF, SARAH JEAN	R29875922716542	5050 S 27 AV W	5050 S 27TH W AVE	Tulsa	OK	741077631
127	CITY OF TULSA	R99227922724044		175 E 2ND ST STE 260	Tulsa	OK	74103
128	LAWSON, BILLY J	R99227922723860	2545 W 51 ST S	2545 W 51ST ST S	Tulsa	OK	74107
129	COX, TY & ELIZABETH HURFORD	R15250922708030	5042 S 26 AV W TULSA 000000000	5042 S 26TH WEST AVE	Tulsa	OK	74107
130	JOHNSON, STAN AND CONNIE	R15250922708040	5048 S 26 AV W	5928 W 43RD ST	Tulsa	OK	74107
131	LEE, LINLY P	R15250922708150	5039 S 26 AV W	5039 S 26TH W AVE	Tulsa	OK	74107
132	SHANKS, RONALD A	R15250922708160	5047 S 26 AV W	5047 S 26TH WEST AVE	Tulsa	OK	74107
133	BUNDY, SUSAN J TRUSTEE	R99227922724160	2503 W 51 ST S	2503 W 51ST ST	Tulsa	OK	741077615
134	SELLARS-WILSON, ROXANA K	R26425922716160	2355 W 51 ST S	2355 W 51ST ST	Tulsa	OK	741077719
135	GARRISON, ROBERT F AND SHARON J	R26425922716170	2339 W 51 ST S	2339 W 51ST ST	Tulsa	OK	741077719
136	MORDHORST, DAN D REVOCABLE TRUST	R26400922716090	2331 W 51 ST S	C/O DAN MORDHORST TTEE PO BOX 4335	Tulsa	OK	741590335
137	MANESS, JO ANNE	R26400922716110	2321 W 51 ST S	2321 W 51 ST	Tulsa	OK	74107
138	DAILEY, BETTY R	R26400922716120	2313 W 51 ST S	2313 W 51 ST S	Tulsa	OK	74107
139	SAVAGE, DAVID JAMES AND LAURA LEE	R99234923411840	3020 W 51 ST S	3020 W 51ST ST	Tulsa	OK	74107
140	MENDOZA, KYLE M AND REBECCA ANN	R99234923411940	5109 S 31 AV W	5109 S 31ST AVE W	Tulsa	OK	74107
141	BRASHEAR, KYLE MANNING TRUST	R99234923412040	5113 S 31 AV W TULSA 741070000	C/O JAMES W DUNHAM JR TTEE 15 W 6TH ST STE 2112	Tulsa	OK	74119
142	OAKLEY PROPERTIES LLC	R99234923412140	5117 S 31 AV W TULSA 000000000	4235 S 33RD WEST AVE	Tulsa	OK	741075904
143	HERMAN, DARRELL	R99234923411740	3004 W 51 ST S TULSA 741070000	3004 W 51ST ST	Tulsa	OK	74107
144	SCOTT, ROBERT E & MARILYN H REV TRUST	R99234923415790		2930 W 51ST ST	Tulsa	OK	74107
145	SCOTT, ROBERT E & MARILYN H REV TRUST	R99234923415840	2930 W 51 ST S	2930 W 51ST ST	Tulsa	OK	74107
146	SCOTT, ROBERT E & MARILYN H REV TRUST	R99234923415640	2910 W 51 ST S TULSA 741070000	2930 W 51ST ST	Tulsa	OK	74107
147	TULSA COUNTY	R99234923415240	2828 W 51 ST S TULSA 741070000	500 S DENVER RM 302	Tulsa	OK	74103

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PARCEL #	OWNER	TAX ID	SITE ADDRESS	OWNER ADDRESS	CITY	STATE	ZIP
148	ESTES, RONNIE S & ROBIN L	R99234923412240	2816 W 51 ST S	2816 W 51ST ST	Tulsa	OK	74107
149	VTR HILLCREST MC TULSA LLC C/O ALTUS GROUP US	R99234923415140	2728 W 51 ST S TULSA 000000000	21001 N TATUM BLVD STE 1630-630	Phoenix	AZ	85050
150	JOHNSON, GENE A AND WANDA J	R99234923415540	2714 W 51 ST S	2714 W 51ST ST	Tulsa	OK	74107
151	CROW, KEVIN C AND TAMMY A	R99234923414340	2708 W 51 ST S	2708 W 51ST ST	Tulsa	OK	74107
152	CARR, BAIRD R AND LAURA L	R99234923412440	2546 W 51 ST S	2546 W 51ST ST	Tulsa	OK	74107
153	GIVENS, ROCHELLE	R99234923414440	2542 W 51 ST S	5301 KELLEYS CIR	Stone Mountain	GA	30088
154	HERNANDEZ, ANA SANCHEZ & FRANCISCO OCTAVIANO DE LOS SANTOS	R99234923414940	2524 W 51 ST S TULSA 741070000	2524 W 51ST ST	Tulsa	OK	74107
155	MCCLANAHAN, RONALD E AND STEPHANIE E	R99234923411640	2520 W 51 ST S	2520 W 51ST ST	Tulsa	OK	74107
156	PATTISON, RONALD L AND PHYLLIS GAYLE	R99234923411540	2516 W 51 ST S	2516 W 51ST ST	Tulsa	OK	74107
157	PONDEROSA HOLDINGS LLC	R99234923415340	TULSA 741070000	101042 S 4450 RD	Gore	OK	74435
158	CITY OF TULSA	R99234923415415		175 E 2ND ST STE 260	Tulsa	OK	74103
159	PONDEROSA HOLDINGS LLC	R99234923405640	2416 W 51 ST S TULSA 741070000	101042 S 4450 RD	Gore	OK	74435
160	CITY OF TULSA	R99234923404540	2404 W 51 ST S TULSA 741070000	175 E 2ND ST STE 260	Tulsa	OK	74103
161	TULSA CITY COUNTY LIBRARY COMMISSION	R99234923405390	2224 W 51 ST S TULSA 741070000	400 CIVIC CENTER	Tulsa	OK	741033830
162	CARBONDALE ASSEMBLY OF GOD CHURCH	R06636923405000	2020 W 51 ST S TULSA 741070000	2135 W 51ST ST	Tulsa	OK	74107
163	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R99234923404840		200 N E 21ST ST	Oklahoma City	OK	731053204
164	STATE OF OKLAHOMA DEPT OF HWY R/W DIV	R06650923400110		200 NE 21ST ST	Oklahoma City	OK	731053204
165	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV	R99234923411810		200 NE 21ST ST	Oklahoma City	OK	731053204
166	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R99234923404040		200 N E 21ST ST	Oklahoma City	OK	731053204
167	PEOPLES BANK	R32410923417200	5151 S 33 AV W TULSA 000000000	445 S LEWIS	Tulsa	OK	74105
168	TULSA INVESTMENT GROUP IV LP	R19780923400258	3232 W SKELLY DR S TULSA 000000000	C/O BURKE & ASSOC LLC 3336 E 32ND ST STE 217	Tulsa	OK	741354442
169	GOODSON, CHARLES M & KAREN L	R19780923400256	2940 W SKELLY DR S TULSA 000000000	2940 W SKELLY DR	Tulsa	OK	74017
170	GOODSON, CHARLES M & KAREN L	R19780923400254	2940 W SKELLY DR S TULSA 000000000	2940 W SKELLY DR	Tulsa	OK	74017
171	EBERTH INVESTMENTS LLC	R19780923400251	2930 W SKELLY DR S TULSA 000000000	PO BOX 63	Jenks	OK	74037
172	OGLESBY, RICHARD B AND TERESA L	R99234923414240	2828 W SKELLY DR S TULSA 000000000	2828 W SKELLY DR	Tulsa	OK	74107
173	OGLESBY, RICHARD B AND TERESA L	R99234923413890	2820 W SKELLY DR S TULSA 000000000	2828 W SKELLY DR	Tulsa	OK	74107
174	KRAMER LLC	R99234923413990	2702 W SKELLY DR S TULSA 000000000	2702 W SKELLY DR	Tulsa	OK	74107
175	VANDERPOOL FAMILY TRUST	R46415923413460	TULSA 000000000	4815 S LAWTON	Tulsa	OK	74107
176	SHORES, ORVILLE DUNCAN-DONNIE LLC	R46415923412500	2628 W SKELLY DR S TULSA 000000000	2626 W SKELLY DR	Tulsa	OK	74107
177	VANDERPOOL FAMILY TRUST	R46415923413870	TULSA 000000000	4815 S LAWTON	Tulsa	OK	74107
178	VANDERPOOL, RUTH ANDNANCY	R99234923414140	2614 W SKELLY DR S TULSA 000000000	4815 S LAWTON AVE	Tulsa	OK	74107
179	SHORES, ORVILLE DUNCAN-DONNIE LLC	R46415923413480	2226 W SKELLY DR S TULSA 741070000	2626 W SKELLY DR	Tulsa	OK	74107
180	CHOJO DEVELOPMENT LLC	R99234923414540	2604 W SKELLY DR S TULSA 000000000	3925 E 54TH ST	Tulsa	OK	74135
181	WHEELER, LANCE A AND STACY L TRUSTEES WHEELER FAMILY REV. TR.	R99234923410940	2600 W SKELLY DR S TULSA 000000000	5922 E. SILVER CITY RIDGE RD.	Tuttle	OK	73089
182	WHEELER, LANCE A AND STACY L TRUSTEES WHEELER FAMILY REV. TR.	R99234923411140	2510 W SKELLY DR S TULSA 000000000	5922 E. SILVER CITY RIDGE RD.	Tuttle	OK	73089
183	ALBERT, ROMAN M JR AND VIRGINIA K	R99234923450280	TULSA 000000000	909 W 23RD ST	Tulsa	OK	74107
184	MDM INVESTMENTS	R99234923409040	2442 W SKELLY DR S TULSA 000000000	820 W SKELLY DR	Tulsa	OK	74107
185	SOUTHERN HILLS MANOR INV CORP C/O DARLENE RAY	R99234923409140	2414 W SKELLY DR S TULSA 000000000	7527 S HUDSON PL	Tulsa	OK	741367201
186	SOUTHERN HILLS MANOR INVESTMENT CORP	R99234923409540	2402 W SKELLY DR S TULSA 000000000	7527 S HUDSON PL	Tulsa	OK	741367201
187	CITY OF TULSA	R99234923410070		175 E 2ND ST STE 260	Tulsa	OK	74103
188	DEMORE ENTERPRISES OF TULSA, INC.	R99234923410140	2228 W SKELLY DR S TULSA 000000000	1352 N WEST BYPASS	Springfield	MO	65803
189	DEMORE ENTERPRISES OF TULSA, INC	R99234923410390	2228 W SKELLY DR S TULSA 000000000	1352 N WEST BYPASS	Springfield	MO	65803
190	PATEL, ISHAVERBHAI & SAVITABEN ISHAVERBHAI PATEL	R99234923408040	2222 W SKELLY DR S TULSA 000000000	2222 W SKELLY DR	Tulsa	OK	741079036
191	AVERY BARRON HOLDINGS, LLC	R99234923407840	2102 W SKELLY DR S TULSA 000000000	2102 WEST SKELLY DR.	Tulsa	OK	74107
192	CITY OF TULSA	R99234923407540		175 E 2ND ST STE 260	Tulsa	OK	74103
193	REALATION COMMUNITY SERVICES OF OKLAHOMA INC	R15552923407640	2026 W SKELLY DR S TULSA 000000000	6774 E 66TH PL	Tulsa	OK	74133
194	RACETRACK PROPERTY LLC	R37327923406740	2002 W SKELLY DR S TULSA 000000000	745 W 51ST ST	Tulsa	OK	74107
195	BANNISTER INVESTMENTS LLC	R99234923405940	1800 W SKELLY DR S TULSA 000000000	5367 OAK LEAF DR	Tulsa	OK	74131
196	CARBONDALE ASSEMBLY OF GOD CHURCH INC	R06635922726440	2135 W 51 ST S TULSA 741070000	2135 W 51ST ST	Tulsa	OK	74107

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PARCEL #	OWNER	TAX ID	SITE ADDRESS	OWNER ADDRESS	CITY	STATE	ZIP
197	HARRELL, DELMAR J AND DOROTHY M C/O JOE ADMIRE JR	R18775922715930	5007 S YUKON AV W	PO BOX 571273	Tulsa	OK	741571273
198	ELLIS, JOE R AND KERRI L	R18775922715940	5013 S YUKON AV W	1525 W LINE ST	Sapulpa	OK	74066
199	NOZAK, LINDSAY	R18775922715920	1944 W 50 ST S	1944 W 50TH ST	Tulsa	OK	74107
200	BEAN, JAMES & TRACY	R18775922715950	1943 W 51 ST S TULSA 000000000	6140 W 26TH ST	Tulsa	OK	74107
201	BRYAN, JESSE DALE & ASHLEY MARIE	R18775922715910	1938 W 50 ST S TULSA 000000000	1938 W 50TH ST S	Tulsa	OK	741077818
202	BUMGARNER, NORMA JEAN & DAVID LEE & OMIA SCOT	R18775922715960	1939 W 51 ST S	1939 W 51ST ST	Tulsa	OK	74107
203	CASTANEDA, FRANCISCO AND SARAH R	R18775922715900	1934 W 50 ST S	13102 S OAK ST	Glenpool	OK	74033
204	KLEIN, DAVID H TRUSTEE DAVID H KLEIN TRUST	R18775922715970	1933 W 51 ST S	1943 W 49TH PL	Tulsa	OK	74107
205	PURZNER, JOHN MICHAEL	R18775922715890	1930 W 50 ST S	1930 W 50TH ST	Tulsa	OK	74107
206	JOHNSON, WILLIS GRANT AND EVELYN M TRUSTEES	R18775922715980	1929 W 51 ST S	JOHNSON REV TRUST 5625 S UNION	Tulsa	OK	74107
207	CRA HOLDINGS LLC	R18775922715880	1924 W 50 ST S TULSA 000000000	5409 OAK FOREST LN	Tulsa	OK	74131
208	JOHNSON, SYLVIA M	R18775922715990	1923 W 51 ST S	7806 S COLLEGE PL	Tulsa	OK	741368701
209	MCCOMBS, MARK ALAN AND OKSANA I	R18775922715870	1920 W 50 ST S	1920 W 50TH ST	Tulsa	OK	74107
210	URIAS, CRYSTAL D	R18775922716000	1919 W 51 ST S	1919 W 51ST ST	Tulsa	OK	74107
211	HAUCK, ALISSA	R18775922715860	1914 W 50 ST S	5620 S 89TH W AVE	Tulsa	OK	74107
212	WOODS, BRITTANY ALISHA & JEFFREY ALAN	R18775922716010	1913 W 51 ST S TULSA 000000000	1913 W 51ST	Tulsa	OK	74107
213	PENN, A MICHELE	R18775922715850	1910 W 50 ST S	8835 E 91ST PL	Tulsa	OK	741335558
214	P2 EQUITY INC	R18775922716020	1909 W 51 ST S TULSA 741070000	9025 E 117TH ST	Bixby	OK	74008
215	BOLING, PEGGY C	R18775922715840	1904 W 50 ST S	1904 W 50TH ST	Tulsa	OK	74107
216	JJB PROPERTIES LLC	R18775922716030	1905 W 51 ST S	PO BOX 700862	Tulsa	OK	74170
217	LEGACY FUNERAL HOLDINGS OF OKLAHOMA LLC	R16825922709270	1823 W 51 ST S TULSA 000000000	3103 SACKETT	Houston	TX	77098
218	WHITETREE, MARK	R16825922709250	1809 W 51 ST S TULSA 741070000	1809 W 51ST ST	Tulsa	OK	74107
219	DAVIS, BENJAMIN C AND MONICA M	R16825922709240	1801 W 51 ST S TULSA 000000000	5924 W 43RD ST	Tulsa	OK	74107
220	CITY OF TULSA	R16825922708979		175 E 2ND ST STE 260	Tulsa	OK	74103
221	MCCOY, SALLY B TRUSTEE SALLY B MCCOY TRUST NO 2 ETAL	R99234923404780	1728 W 51 ST S TULSA 000000000	PO BOX 1949	Tulsa	OK	74101
222	MCCOY, SALLY B TRUSTEE SALLY B MCCOY TRUST NO 2 ETAL	R99234923404740	1722 W 51 ST S TULSA 000000000	PO BOX 1949	Tulsa	OK	74101
223	MCCOY, SALLY B AND DONALD B ATKINS TRUSTEES	R99234923404440	5100 S UNION AV W TULSA 000000000	SALLY B MCCOY TRUST ETAL PO BOX 1949	Tulsa	OK	741011949
224	TULSA INVESTMENT GROUP IV LP C/O RYAN LLC	R16825922708970	1723 W 51 ST S TULSA 000000000	15 W 6TH ST STE 2400	Tulsa	OK	741195417
225	STATE OF OKLAHOMA DEPT OF HWYS R/W DEPT	R06325923500060		200 NE 21ST ST	Oklahoma City	OK	731053204
226	LOLLIS, JACK & SUSAN	R16825922708870	4904 S UNION AV W TULSA 000000000	4504 S 73RD WEST AVE	Tulsa	OK	741078298
227	PAREKH, A JASHVANT AND MALTI J AND JASHVANTBHAI	R16825922708910	4910 S UNION AV W TULSA 000000000	208 S REDWOOD CIR	Broken Arrow	OK	740124529
228	CLARY, ARTHUR M SR AND EDYTHE TRUSTEES CLARY TR	R16825922708930	4916 S UNION AV W	4916 S UNION	Tulsa	OK	741077840
229	SOUTHWEST PROPERTIES REALTY	R16825922708920	4918 S UNION AV W TULSA 000000000	3900 S 74TH WEST PL	Tulsa	OK	741074866
230	CRW PROPERTIES INC	R16825922708950	4926 S UNION AV W TULSA 000000000	P O BOX 701713	Tulsa	OK	74170
231	PLEASANT PROPERTIES LLC	R16825922708940	4948 S UNION AV W TULSA 000000000	PO BOX 52402	Tulsa	OK	74152
232	LINC PROPERTIES LLC	R16825922708960	4966 S UNION AV W TULSA 000000000	8403 S 89TH WEST AVE	Tulsa	OK	74131
233	SHADOWBROOK PROPERTIES LLC	R40925922601380	4915 S UNION AV W TULSA 000000000	4915 S UNION AVE	Tulsa	OK	74107
234	RONGEY, PAUL D AND JOHN A SMITH	R40925922601400	4917 S UNION AV W TULSA 000000000	4915 S UNION AVE	Tulsa	OK	74107
235	501 S LEWIS LLC	R40925922601420	4935 S UNION AV W TULSA 000000000	PO BOX 4335	Tulsa	OK	74159
236	QUIKTRIP CORP ATTN TAX DEPT	R40925922601425	1617 W 51 ST S TULSA 000000000	PO BOX 3475	Tulsa	OK	74101
237	QUIKTRIP CORPORATION ATT: TAX DEPT	R40925922601430	4993 S UNION AV W TULSA 000000000	PO BOX 3475	Tulsa	OK	74101
238	CITY OF TULSA	R40925922601340		175 E 2 ST STE 260	Tulsa	OK	74103
239	ASPEN LAND & EXPLORATION COMPANY	R06325923500180	1630 W 51 ST S TULSA 741070000	P O BOX 4335	Tulsa	OK	741590335
240	WEST BANK STORAGE LLC	R06325923500100	1602 W 51 ST S TULSA 000000000	4946 S MADISON AVE	Tulsa	OK	74105
241	CITY OF TULSA	R06325923500258		175 E 2ND ST STE 260	Tulsa	OK	74103
242	WEST BANK STORAGE LLC	R06325923500090	1602 W 51 ST S TULSA 741070000	4946 S MADISON AVE	Tulsa	OK	74105
243	BRADY RESIDENTIAL PROPERTIES LLC	R40925922601440	4927 S TACOMA AV W TULSA 000000000	4503 W 89TH ST	Tulsa	OK	741323429
244	DEUTSCHE BANK NATIONAL TRUST CO TTEE	R40925922601450	1510 W 49 ST S	7105 CORPORATE DR	Plano	TX	75024
245	LAHR, CARL E AND RITA A	R40925922601460	1504 W 49 ST S	1515 E 67TH ST N	Tulsa	OK	741261335

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246	BERCHER, ANNICE M & RANDY ROBERT	R40925922601640	1410 W 49 ST S	1410 W 49TH ST	Tulsa	OK	74107
247	BERCHER, ANNICE M & RANDY ROBERT	R40925922601650		1410 W 49TH ST	Tulsa	OK	741078018
248	CROSSROADS FULL GOSPEL CHURCH	R40925922601630	TULSA 741070000	1310 W 49TH ST	Tulsa	OK	74107
249	CROSSROADS PENTECOSTAL CHURCH OF GOD INC	R40925922601600	1310 W 49 ST S TULSA 741070000	1310 W 49TH ST	Tulsa	OK	741078016
250	WAREHOUSE MARKET 51ST & UNION LLC	R40925922601550	1507 W 51 ST S TULSA 74107	C/O RYAN LLC 15 W 6TH ST STE 217	Tulsa	OK	741195415
251	ASPEN SQUARE INC	R40925922601680	1419 W 51 ST S TULSA 000000000	PO BOX 1861	Muskogee	OK	74402
252	CITY OF TULSA	R40925922601529	S TACOMA AV W	175 E 2 ST STE 260	Tulsa	OK	74103
253	TULSA COUNTY	R40925922601599		500 S DENVER RM 302	Tulsa	OK	74103
254	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES	R06325923500260	5131 S UNION AV W TULSA 000000000	BETTE L CLINE TRUST 5131 S UNION AVE	Tulsa	OK	74107
255	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES	R06325923500280	5131 S UNION AV W TULSA 741070000	BETTE L CLINE TRUST 5131 S UNION AVE	Tulsa	OK	74107
256	CLINE, CHAD ALLEN AND CHARLES C III CO TRUSTEES	R06325923500310	5131 S UNION AV W TULSA 000000000	BETTE L CLINE TRUST 5131 S UNION AVE	Tulsa	OK	74107
257	WATTS, ROBERT	R99235923524140	5251 S UNION AV W TULSA 741070000	5251 S UNION AVE	Tulsa	OK	74107
258	CITY OF TULSA	R99234923438440		175 E 2ND ST STE 260	Tulsa	OK	74103
259	JANOWSKI, BRADEN S TRUSTEE BRADEN S S. JANOWSKI TR.	R99234923430450	5300 S UNION AV W TULSA 000000000	1997 MORRIS DR	Niles	MI	491208620
260	CITY OF TULSA	R99234923438329		175 E 2ND ST STE 260	Tulsa	OK	74103
261	JOHNSON, WILLIS G AND EVELYN M TRUSTEES JOHNSON TR	R99235923524240	5265 S UNION AV W	5265 S UNION AVE	Tulsa	OK	741079057
262	SMITH, DAVID L AND HOLLIS J	R99235923525840	5301 S UNION AV W TULSA 741070000	724 N HIGHLAND TERRACE	Cleveland	OK	74020
263	CITY OF TULSA	R99235923526039		175 E 2ND ST STE 260	Tulsa	OK	74103
264	CITY OF TULSA	R99235923528840	5801 S UNION AV W TULSA 741070000	175 E 2ND ST STE 260	Tulsa	OK	74103
265	HOUSING AUTHORITY OF CITY OF TULSA	R31760923537720	1615 W 59 ST S TULSA 741070000	415 E INDEPENDENCE	Tulsa	OK	741065727
266	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R99235923516140		200 NE 21ST ST	Oklahoma City	OK	731053204
267	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R99235923542740		200 NE 21ST ST	Oklahoma City	OK	731053204
268	PLACEDER ONE LLC	R99235923547570		124 E 4TH ST	Tulsa	OK	74103
269	COCHRAN, MICHAEL RAY REV TRUST C/O MICHAEL RAY COCHRAN TTEE	R99226922635710	1417 W 47 ST S TULSA 741070000	6267 S 31ST WEST AVE	Tulsa	OK	74132
270	CITY OF TULSA	R99226922634790		175 E 2ND ST STE 260	Tulsa	OK	74103
271	CLINE, CHARLES C JR AND BETTE L TRUSTEES CHARLES C JR &	R40925922600930	1410 W 47 ST S	BETTE L CLINE TRUST 4739 S SANTA FE AVE	Tulsa	OK	74107
272	DILL, KIMBERLY KAY	R40925922600990	1305 W 49 ST S	1305 W 49TH ST S	Tulsa	OK	74107
273	STATE OF OKLAHOMA	R99226922633070		DEPT OF HWYS R/W DIV	Oklahoma City	OK	73104
274	STATE OF OKLAHOMA C/O DEPT OF HWYS R/W DIV	R40925922601610		200 NE 21ST ST	Tulsa	OK	731053204
275	ENBRIDGE PIPELINES LLC C/O RIGHT OF WAY DEPARTMENT	R99226922633250		119 N 25TH ST E	Superior	WI	54880
276	CASEY, RHONDA L	R99226922632010	1046 W 46 ST S	1046 W 46TH ST	Tulsa	OK	74107
277	TEXAS EMPIRE PIPE LINE CO C/O ENBRIDGE PIPELINES (OZARK)	R40925922602000		LLC-ROW DEPT 119 N 25TH ST E	Superior	WI	54880
278	BROWN, JIMMY L AND KATHLEEN L	R40925922601930	1125 W 49 ST S	1125 W 49TH ST	Tulsa	OK	741078011
279	BIVINS, LOYD AND MARSHA	R40925922601970	4834 S OLYMPIA AV W	4834 S OLYMPIA AVE	Tulsa	OK	74107
280	SHERFIELD, NANETTE	R40925922601940	1115 W 49 ST S TULSA 000000000	1115 W 49TH ST	Tulsa	OK	74107
281	NEWPORT, DANIEL E AND MARLA J	R40925922601950	1103 W 49 ST S	1103 W 49TH ST	Tulsa	OK	741078011
282	1118 W 49TH ST TRUST	R40925922601850	1118 W 49 ST S	1118 W 49TH ST	Tulsa	OK	741078012
283	DELOZIER, JENNIFER	R40925922601790	1104 W 49 ST S	1104 W 49TH ST	Tulsa	OK	74107
284	MORRIS, C PHILIP & JANICE LIVING TRUST	R41000922602180	4918 S OLYMPIA AV W	4918 S OLYMPIA	Tulsa	OK	74107
285	HYDE, NORMA J TRUSTEE NORMA J HYDE TRUST	R41000922602170	4926 S OLYMPIA AV W	4926 S OLYMPIA AVE	Tulsa	OK	74107
286	HALL, THOMAS R & MARY M CO TTEES THOMAS R & MARY M HALL FAMILY	R41000922602160	4934 S OLYMPIA AV W	TR 4934 S OLYMPIA AVE	Tulsa	OK	741078028
287	ROUDABUSH, STEPHANIE	R41000922602150	4946 S OLYMPIA AV W	2010 W H ST	Jenks	OK	740372353
288	MARTINEZ, JAMES L AND APRIL S	R41000922602140	4950 S OLYMPIA AV W	4950 S OLYMPIA AV	Tulsa	OK	741078028
289	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R41000922602130		200 NE 21ST ST	Oklahoma City	OK	731053204
290	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R30060923500010		200 NE 21ST ST	Oklahoma City	OK	731053204
291	SOLOMON, WAYNE AND DEBORAH	R99226922638510	4901 S OLYMPIA AV W	4901 S OLYMPIA	Tulsa	OK	74107
292	ROBINSON, PAUL T AND ANNA MAE	R99226922638410	4905 S OLYMPIA AV W	4905 S OLYMPIA AV	Tulsa	OK	741078027
293	MCLENDON, JAMES T AND ROBERTA	R99226922640410	4923 S OLYMPIA AV W	4923 S OLYMPIA AVE	Tulsa	OK	74107
294	CARR, WILLIAM C AND JUDITH A	R99226922638710	4931 S OLYMPIA AV W	4931 S OLYMPIA AVE	Tulsa	OK	74107

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295	HORN, SIDNEY L	R99226922638610	4939 S OLYMPIA AV W	4939 S OLYMPIA	Tulsa	OK	74107
296	CLARKSON, CHARLES A	R99226922638230	4947 S OLYMPIA AV W	4947 S OLYMPIA AVE	Tulsa	OK	741078027
297	STATE OF OKLAHOMA DEPARTMENT OF HWY R/W DIVISION	R99226922638310		200 NE 21ST ST	Oklahoma City	OK	731053204
298	WINNETKA HEIGHTS BAPTIST CHURCH OF TULSA	R99226922640510	TULSA 741070000	1003 W 49TH ST	Tulsa	OK	741078325
299	PUBLIC SERVICE CO OF OKLA	R99226922642310	TULSA 741070000	212 E 6TH ST	Tulsa	OK	74119
300	OAKLEY PROPERTIES LLC	R47625922603280	4906 S MAYBELLE AV W	4235 S 33RD WEST AVE	Tulsa	OK	741075904
301	CLUBB, PEGGY LOIS LIVING TRUST C/O PEGGY LOIS CLUBB TTEE	R47625922603290	4910 S MAYBELLE AV W	4910 S MAYBELLE AVE	Tulsa	OK	741078338
302	COCHRAN, HELGA	R47625922603300	4916 S MAYBELLE AV W	4916 S MAYBELLE AVE	Tulsa	OK	74107
303	CARPENTER, CLARA D	R47625922603310	4920 S MAYBELLE AV W	4920 S MAYBELLE AVE	Tulsa	OK	74107
304	STONE, GENIE M	R47625922603320	4926 S MAYBELLE AV W TULSA 000000000	4926 S MAYBELLE AVE	Tulsa	OK	74107
305	ELLINGTON, JUSTIN	R47625922603330	4932 S MAYBELLE AV W	13230 HOBBS CREEK DR	Collinsville	OK	74021
306	BORK, ADAM J AND PATRICIA L	R47625922603340	4936 S MAYBELLE AV W	6121 W. 39TH ST.	Tulsa	OK	74107
307	MCDEVITT, PEGGY JO TRUSTEE PEGGY JO MCDEVITT REV TRUST	R47625922603350	4942 S MAYBELLE AV W	4845 S 27TH WEST AVE	Tulsa	OK	74107
308	PETERSEN, NEAL E	R47625922603360	4946 S MAYBELLE AV W TULSA 741070000	4946 S MAYBELLE AVE	Tulsa	OK	74107
309	DEAN, LUCAS ADAM	R47625922603370	4952 S MAYBELLE AV W	4952 S MAYBELLE AVE	Tulsa	OK	74107
310	WILLIAMS, JANELLE L	R47625922603380	4956 S MAYBELLE AV W	4956 S MAYBELLE AVE	Tulsa	OK	74107
311	STOTTLEMYRE, ANDREW	R47625922603390	4962 S MAYBELLE AV W TULSA 000000000	4962 S MAYBELLE AVE	Tulsa	OK	74107
312	4968 S MAYBELLE AVE LAND TRUST, THE	R47625922603400	4968 S MAYBELLE AV W TULSA 000000000	PO BOX 570992	Tulsa	OK	74157
313	BAKER, SHELTON	R47625922603150	4967 S MAYBELLE AV W	4967 S MAYBELLE AVE	Tulsa	OK	74107
314	SIMMONS, RANDLE A & TAMARA D	R47625922603130	4962 S LAWTON AV W TULSA 000000000	4962 S LAWTON AVE	Tulsa	OK	74107
315	HALL, JEREMY D	R47625922603140	4968 S LAWTON AV W	4968 S LAWTON AVE	Tulsa	OK	74107
316	TALLEY, BRICE AND CAROLYN	R47625922603000	4967 S LAWTON AV W	4967 S LAWTON AV	Tulsa	OK	741078333
317	SMITH, JOSEPH D	R36840922646150		207 N 111TH EAST AVE APT 324	Tulsa	OK	741163427
318	PUBLIC SERVICE CO OF OKLA	R47625922603010	TULSA 741070000	212 E 6TH ST	Tulsa	OK	74119
319	CITY OF TULSA	R99226922638325		175 E 2ND ST STE 260	Tulsa	OK	74103
320	CITY OF TULSA	R99235923522830		175 E 2ND ST STE 260	Tulsa	OK	74103
321	CITY OF TULSA	R99235923511630		175 E 2ND ST STE 260	Tulsa	OK	74103
322	RED FORK MASONIC LODGE NO 505	R99235923523840		1030 W 51ST ST	Tulsa	OK	74107
323	RED FORK LODGE NO 505 A F & A M	R99235923522440	1030 W 51 ST S TULSA 741078327	1030 W 51ST ST S	Tulsa	OK	741078327
324	WEINSTOCK, JOEL	R99235923522740	1010 W 51 ST S TULSA 741070000	5800 S LEWIS STE 137	Tulsa	OK	74105
325	CITY OF TULSA	R99235923511440	TULSA 741070000	175 E 2ND ST STE 260	Tulsa	OK	74103
326	RONGEY, PAUL AND JOHN A SMITH	R99235923511492	908 W 51 ST S TULSA 741070000	4915 S UNION AVE	Tulsa	OK	74107
327	RONGEY, PAUL AND JOHN A SMITH	R99235923511518	904 W 51 ST S TULSA 741070000	4915 S UNION AVE	Tulsa	OK	74107
328	RONGEY, PAUL AND JOHN A SMITH	R99235923511468	896 W 51 ST S TULSA 741070000	4915 S UNION AVE	Tulsa	OK	74107
329	AL-KAZAZ, GAHLIB REV TRUST, THE	R99235923511540	808 W 51 ST S TULSA 741070000	C/O GAHLIB AL-KAZAZ TTEE PO BOX 471352	Tulsa	OK	741471352
330	TLC PROPERTIES INC C/O LAMAR OUTDOOR	R99235923512340		ATT RON HAVENS 7777 E 38TH ST	Tulsa	OK	74145
331	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R99235923545840		200 NE 21ST ST	Oklahoma City	OK	731053204
332	BECCO CONTRACTORS INC	R99235923523340	1110 W SKELLY DR S TULSA 000000000	PO BOX 9159	Tulsa	OK	74157
333	Y M C A OF GREATER TULSA METROPOLITAN OFFICE	R99235923526040	5323 S OLYMPIA AV W TULSA 741070000	5400 S OLYMPIA AVE	Tulsa	OK	74107
334	CITY OF TULSA	R99235923523530		175 E 2ND ST STE 260	Tulsa	OK	74103
335	SEIFRIED, MELISSA TRUST	R99235923523940	1110 W SKELLY DR S TULSA 741070000	5301 S OLYMPIA AVE	Tulsa	OK	74107
336	LEHMAN, RAY T TRUSTEE RAY T LEHMAN TRUST	R99235923523540	920 W SKELLY DR S TULSA 000000000	C/O S M R INC PO BOX 52220	Tulsa	OK	74152
337	MONAHAN, VIRGINIA H TRUSTEE VIRGINIA HELEN MONAHAN TR	R99235923522940	912 W SKELLY DR S TULSA 741070000	C/O CROWN PRODUCTS 912 W SKELLY DR	Tulsa	OK	741079411
338	WEST SKELLY INDUSTRIAL PARK ATTN ALLEN G GELWICK JR	R99235923509240	906 W SKELLY DR S TULSA 741050000	906 W SKELLY DR	Tulsa	OK	74105
339	MDM INVESTMENTS LP	R99235923510310	820 W SKELLY DR S TULSA 741070000	820 W SKELLY DR	Tulsa	OK	74107
340	JARIWALA LLC	R99235923508840	802 W SKELLY DR S TULSA 741070000	802 W SKELLY DR	Tulsa	OK	74107
341	MDM INVESTMENTS LP	R99235923509040	5220 S LAWTON AV W TULSA 000000000	820 W SKELLY DR	Tulsa	OK	74107
342	BOTTLING GROUP LLC	R99235923515610	5224 S LAWTON AV W TULSA 000000000	ATTN: TAX DEPT. 3A-300 PO BOX 660634	Dallas	TX	752660634
343	CITY OF TULSA	R99235923515070		175 E 2ND ST STE 260	Tulsa	OK	74103

Tulsa County
EC-1780
I-44 from I-244 Junction East to the Arkansas River

PARCEL #	OWNER	TAX ID	SITE ADDRESS	OWNER ADDRESS	CITY	STATE	ZIP
344	BOTTLING GROUP LLC	R99235923502640	510 W SKELLY DR S TULSA 992359235	ATTN: TAX DEPT 3A-300 PO BOX 660634	Dallas	TX	752660634
345	EXPLORER HOLDING COMPANY LLC	R36840922645630	745 W 51 ST S TULSA 741070000	745 W 51ST ST	Tulsa	OK	741078353
346	STATE OF OKLAHOMA DEPT HIGHWAY RIGHT OF WAY	R99226922648210		200 NE 21ST ST	Oklahoma City	OK	73105
347	FOWLER PROPERTIES TULSA C LLC	R35510922644020	707 W 51 ST S TULSA 000000000	C/O FOWLER HOLDING CO 2721 36TH AVE NW	Norman	OK	73072
348	CITY OF TULSA	R99226922648310		175 E 2ND ST STE 260	Tulsa	OK	74103
349	CITY OF TULSA	R99225922519370		175 E 2ND ST STE 260	Tulsa	OK	74103
350	CITY OF TULSA	R99236923619360	5309 S ELWOOD AV W TULSA 741070000	175 E 2ND ST STE 260	Tulsa	OK	74103
351	CITY OF TULSA	R99225922519900		175 E 2ND ST STE 260	Tulsa	OK	74103
352	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R35775922507540		200 NE 21ST ST	Oklahoma City	OK	731053204
353	CITY OF TULSA	R35775922507610		175 E 2 ST STE 260	Tulsa	OK	74103
354	CITY OF TULSA	R99236923618000		175 E 2 ST STE 260	Tulsa	OK	74103
355	CITY OF TULSA	R99236923628080		175 E 2 ST STE 260	Tulsa	OK	74103
356	CITY OF TULSA	R45300923617859	TULSA 741050000	175 E 2 ST STE 260	Tulsa	OK	74103
357	CITY OF TULSA	R45300923616100		175 E 2 ST STE 260	Tulsa	OK	74103
358	STATE OF OKLAHOMA C/O DEPT OF TRANSPORTATION	R45300923616110		R/W DIV 200 NE 21ST ST	Oklahoma City	OK	731053204
025A	LUGINBILL, SANDRA S & DELBERT B	R38975923308710	3758 W 51 ST S TULSA 741070000	823 W PINE AVE	Enid	OK	73701
094A	CITY OF TULSA	R06650923400018		175 E 2ND ST STE 260	Tulsa	OK	74103
097A	CITY OF TULSA	R06625922701538		175 E 2ND ST STE 260	Tulsa	OK	74103
098A	CITY OF TULSA	R06650923400098		175 E 2ND ST STE 260	Tulsa	OK	74103
196A	CITY OF TULSA	R99227922732730		175 E 2ND ST STE 260	Tulsa	OK	74103

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Tulsa County Records [OK]

Owner Information

LINPEN INVESTMENTS LLC
.
PO BOX 9471
TULSA, OK 74157

Property Address

3801 W 51 ST S TULSA 000000000

Building No. 1

Account Number 001 R99228922831370

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA RURAL**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$66500		$7315
Mobile	$0		$0
Total	$200000		$22000
		Exemptions	$0
School District	1B	Net Assessed	$22000
School Levy	$111.72	Estimated Taxes	**$2457.84**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130516	0	0/0	0
Grantor: CHALMERS, SAMUEL A TTEE SAMUEL A CH			
20130516	200000	0/0	157.48
Grantor: CHALMERS, SAMUEL A TTEE SAMUEL A CH			
19940228	0	05599/01189	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.736	75620	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

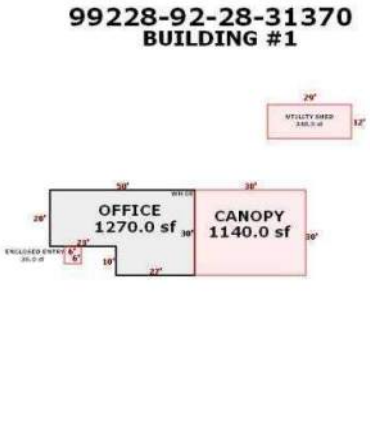
Type Commercial
Style Office Building
Design Office Building
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1270**

Commercial Elements

Stories N/A Story Height 00 Perimeter 160
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Canopies- offic,medcl,publc Steel Low	0	X	1140
Outbuilding Tool Shed Bldg Average Quality	0	X	348
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT SW SE BEG 25N & 775E SWC SE TH N137.90 NE138.38 E331.22 SW312.12 W225 POB SEC 28 19 12 1.736AC

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Tulsa County Records [OK]

Owner Information

ADETULA, AMOS OLATUNDE
.
5000 E 94TH ST N
SPERRY, OK 74073

Property Address

TULSA 000000000

Building No. 0

Account Number 002 R53175922807700

Sub Name: **FREELAND ADDN**
Lot: **6** Block: **24**
Area Name: **TULSA RURAL**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$200		$22
Mobile	$0		$0
Total	$200		$22
		Exemptions	$0
School District	1B	Net Assessed	$22
School Levy	$111.72	Estimated Taxes	**$2.46**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080609	0	0/0	0
Grantor: TULSA COUNTY			
19781228	0	04374/00147	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.0803	3500	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LOT 6 BLK 24

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Tulsa County Records [OK]

Owner Information

GLEANOR MISSIONARY SOCIETY INC
.
PO BOX 571097
TULSA, OK 74157

Property Address

741070000

Building No. **0**

Account Number **003** **R99228922831770**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA RURAL**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$42700		$4697
Mobile	$0		$0
Total	$42700		$4697
		Exemptions	$0
School District	1B	Net Assessed	$4697
School Levy	$111.72	Estimated Taxes	**$524.75**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.98	42688.8	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG SE COR W 1/2 SE TH W 240.5 TO E ROW LINE UNION RR TH NE ON ROW APPR 429.3 TOE L W 1/2 SE TH S 355.6 TO BEG SEC 28-19-12

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Tulsa County Records [OK]

Owner Information

IGLESIA OESTE ASAMBLEA DE DIOS INC
.
4013 WEST 68TH COURT
TULSA, OK 74107

Property Address

3615 W 51 ST S TULSA 741070000

Building No. 1

Account Number 004 R06675922801530

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **13** Block: **5**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$27809		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	1.2321	53669	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Canopy - CM Drive Under Avg	0	X	72
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080512	50000	00000/00000	6.59

Grantor: BEAMS OF LIGHT GOSPEL MISSIONARY SC

Sale Date	Sale Price	Book/Page	$/SF
20020129	0	06682/02614	0

Grantor:

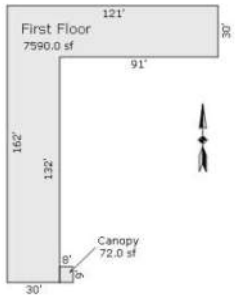
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

06675-92-28-01530-001



Sketch by Apex Medina™

Building Elements

Type	Commercial		
Style	Church		
Design	Church w/Sunday School		
Quality	Average	Interior Finish	N/A
Condition	Avg		
Roof	Gable		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Complete HVAC	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1970**	Eff Year Built **1970**	Year Remodeled **0**
Square Footage	**7590**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 566
Units	0	Rent 000	
Class Description	Masonry		

Legal Description

LTS 13 THRU 18 BLK 5

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Tulsa County Records [OK]

Owner Information

BERCHER, TRAVIS
.
11585 N 36TH WEST AVE
SPERRY, OK 74073

Property Address

5040 S 36 AV W

Building No. 1

Account Number 005 R06675922801500

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **10** Block: **5**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13000		$1430
Mobile	$0		$0
Total	$41100		$4521
		Exemptions	$0
School District	T-1A	Net Assessed	$4521
School Levy	$134.51	Estimated Taxes	**$608.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19990203	0	06168/02184	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

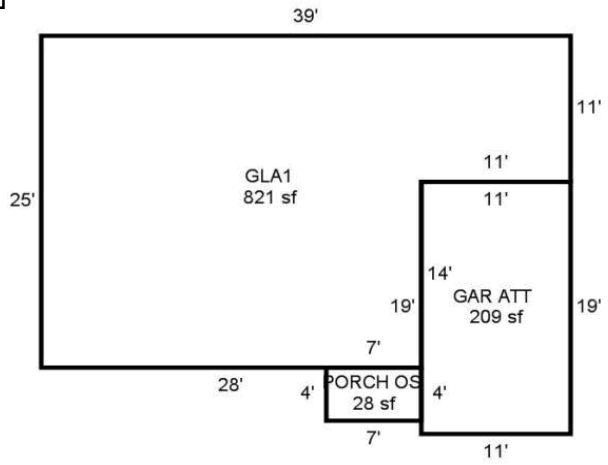
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 209
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **821**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	209
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 10 BLK 5

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Tulsa County Records [OK]

Owner Information

MORENO, ANDREW A IV
.
5044 S 36TH WEST AVE
TULSA, OK 74107

Property Address

5044 S 36 AV W

Building No. 1

Account Number 006 R06675922801510

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **11** Block: **5**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$42000		$4620
Mobile	$0		$0
Total	$55000		$6050
		Exemptions	$0
School District	T-1A	Net Assessed	$6050
School Levy	$134.51	Estimated Taxes	**$813.79**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20151015	55000	0/0	70.15
Grantor: HEDDEN, ALAN R			
20051201	62000	00000/00000	79.08
Grantor: VAUGHT, JERAD TIM			
20031001	55000	07162/01338	70.15
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

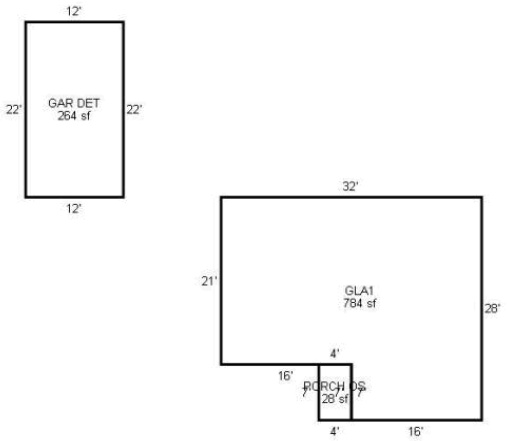
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 264
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1948** Eff Year Built **1948** Year Remodeled **0**
Square Footage **784**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	264
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 11 BLK 5

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Tulsa County Records [OK]

Owner Information

LUGINBILL, SANDRA S
.
823 E PINE AVE
ENID, OK 73701

Property Address

5048 S 36 AV W

Taxable Market		Assessed Value
Land	$0	$0
Improved	$46100	$5071
Mobile	$0	$0
Total	$59100	$6501
	Exemptions	$0
School District T-1A	Net Assessed	$6501
School Levy $134.51	Estimated Taxes	**$874.45**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Cov Pat 160 C Prt 320	0	X	700
Slab Roof Ceil	0	X	128
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 007 R06675922801520

Sub Name: **CARBONDALE THIRD ADDN**

Lot: **12** Block: **5**

Area Name: **TULSA CITY**

Section **28** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140116	0	0/0	0

Grantor: LUGINBILL, DELBERT

Sale Date	Sale Price	Book/Page	$/SF
20101001	45000	0/0	28.16

Grantor: MEADORS, DEBORAH KAYE

Sale Date	Sale Price	Book/Page	$/SF
20100928	0	0/0	0

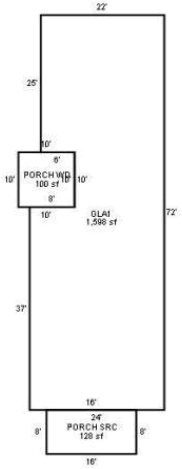
Grantor: DOKE, BILLIE J

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0



Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 128
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **1598**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Legal Description

LT 12 BLK 5

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Tulsa County Records [OK]

Owner Information

MILLER, MATTHEW O & KRISTIE G
.
3405 W 110TH ST
JENKS, OK 74037

Property Address

5039 S 36 AV W TULSA 000000000

Building No. 1

Account Number 008 R06675922801690

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **15** Block: **6**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13000		$1430
Mobile	$0		$0
Total	$64000		$7040
		Exemptions	$0
School District	T-1A	Net Assessed	$7040
School Levy	$134.51	Estimated Taxes	**$946.95**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090706	37500	0/0	45.96
Grantor: BANK OF OKLAHOMA NA ATT DEANN STAC			
20090325	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20060301	64000	00000/00000	78.43
Grantor: CONVERSE, ROBERT E			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

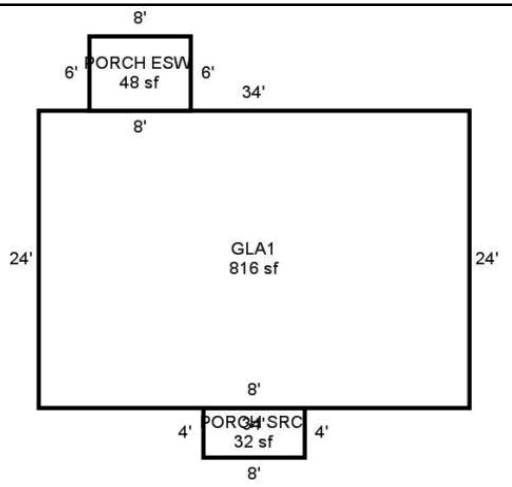
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 80
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **816**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Encl Solid Wall	0	X	48
Slab Roof Ceil	0	X	32
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 15 BLK 6

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Tulsa County Records [OK]

Owner Information

ABEL, MARY ANN
.
5043 S 36TH W AVE
TULSA, OK 741077403

Property Address

5043 S 36 AV W

Building No. 1

Account Number 009 R06675922801680

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **14** Block: **6**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13000		$1111
Mobile	$0		$0
Total	$40700		$4477
		Exemptions	$1000
School District	T-1A	Net Assessed	$3477
School Levy	$134.51	Estimated Taxes	**$467.69**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080721	0	0/0	0
Grantor: ABEL, WILLIAM RICHARD			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair — Interior Finish N/A
Condition Avg
Roof N/A — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat None — Air N/A
Beds 0 — Baths 1 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 64
Basement N/A — Basement SF 0
Year Built **1946** — Eff Year Built **1946** — Year Remodeled **0**
Square Footage **816**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

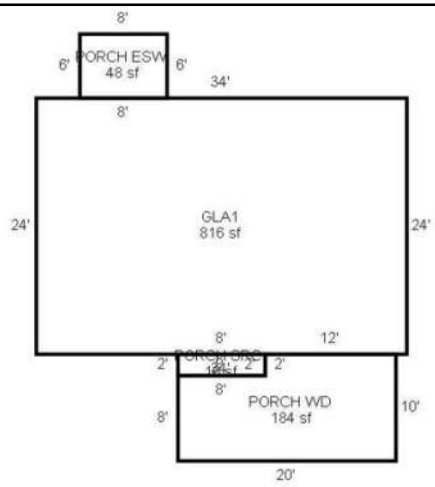
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Encl Solid Wall	0	X	48
Slab Roof Ceil	0	X	16
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 14 BLK 6

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Tulsa County Records [OK]

Owner Information

ROWE, JAMES
.
5047 S 36TH WEST AVE
TULSA, OK 74107

Property Address

5047 S 36 AV W

Taxable Market		Assessed Value
Land	$0	$0
Improved	$13000	$1430
Mobile	$0	$0
Total	$58000	$6380
	Exemptions	$0
School District T-1A	Net Assessed	$6380
School Levy $134.51	Estimated Taxes	**$858.17**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
C Prt 576 Cov Pat 308	0	X	1000
Attached	0	X	616
Stg 96	0	X	200
Slab Roof Ceil	0	X	32
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 010 R06675922801670

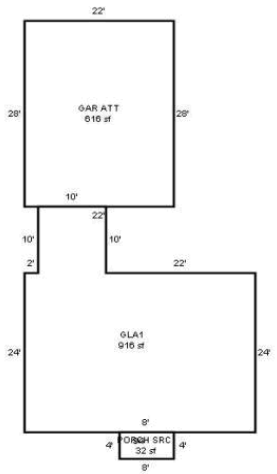
Sub Name: **CARBONDALE THIRD ADDN**
Lot: **13** Block: **6**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20071101	58000	00000/00000	63.32
Grantor: PITTMAN, EVERLENE RAE, TRUSTEE			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 616
Porch	Porch: Slab Roof Ceil		Porch SF 32
Basement	N/A		Basement SF 0
Year Built	**1946**	Eff Year Built **1946**	Year Remodeled **0**
Square Footage	**916**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Legal Description

LT 13 BLK 6

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Tulsa County Records [OK]

Owner Information

JOHNSON REAL ESTATE PROPERTIES LLC
.
5928 W 43RD ST
TULSA, OK 74107

Property Address

5040 S 35 AV W

Building No. 1

Account Number 011 R06675922801640

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **10** Block: **6**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13000		$1430
Mobile	$0		$0
Total	$40000		$4400
		Exemptions	$0
School District	T-1A	Net Assessed	$4400
School Levy	$134.51	Estimated Taxes	**$591.84**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130124	27500	0/0	35.99
Grantor: BANK OF AMERICA NA			
20121016	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20061201	70000	00000/00000	91.62
Grantor: HARRIS, ROSEMARY			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Fair
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 286
Porch Porch: Slab Roof Ceil Porch SF 15
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **764**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

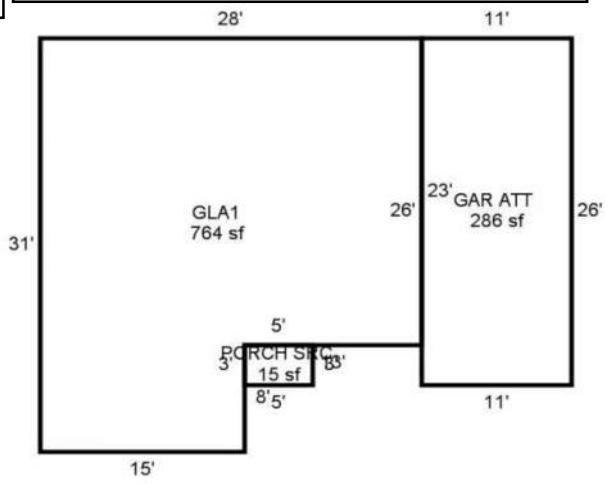
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	286
Slab Roof Ceil	0	X	15
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 10 BLK 6

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Tulsa County Records [OK]

Owner Information

DAVIS, CATHY LEE
.
5044 S 35TH W AVE
TULSA, OK 741077434

Property Address

5044 S 35 AV W

Building No. 1 | 012 | Account Number R06675922801650

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **11** Block: **6**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$41700		$3062
Mobile	$0		$0
Total	$54700		$6017
		Exemptions	$2000
School District	T-1A	Net Assessed	$4017
School Levy	$134.51	Estimated Taxes	**$540.33**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19910101	12000	05299/00789	10.28
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

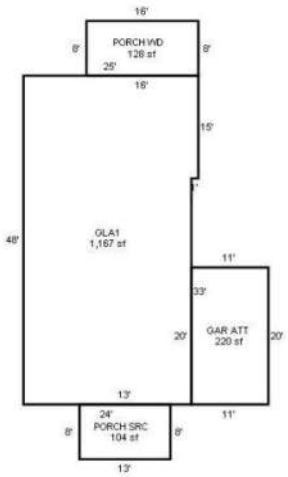
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 220
Porch Porch: Slab Roof Ceil Porch SF 104
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **1167**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	220
Slab Roof Ceil	0	X	104
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 11 BLK 6

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Tulsa County Records [OK]

Owner Information

ELMORE, JESSICA L
.
5048 S 35TH WEST AVE
TULSA, OK 74107

Property Address

5048 S 35 AV W

Taxable Market		Assessed Value
Land	$0	$0
Improved	$72000	$7920
Mobile	$0	$0
Total	$85000	$9350
	Exemptions	$0
School District T-1A	Net Assessed	$9350
School Levy $134.51	Estimated Taxes	**$1257.67**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	572
Slab Roof Ceil	0	X	422
Stg 105 Sf	0	X	300
Standard	0	X	3
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 013 R06675922801660

Sub Name: **CARBONDALE THIRD ADDN**

Lot: **12** Block: **6**

Area Name: **TULSA CITY**

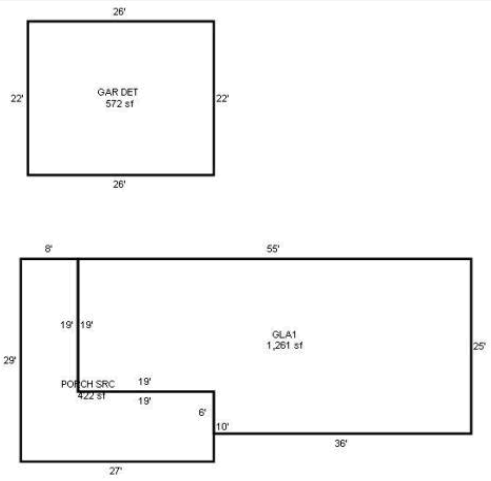
Section **28** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150113	85000	0/0	67.41
Grantor: CAMPBELL, PATRICIA E			
Sale Date	Sale Price	Book/Page	$/SF
20060701	78000	00000/00000	61.86
Grantor: COON, PATRICIA			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	Drywall
Condition	Fair		
Roof	Gable/Hip		Wood Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds 0	Baths 1	Total Rooms	0
Garage	Garage: Detached	Garage SF	572
Porch	Porch: Slab Roof Ceil	Porch SF	422
Basement	N/A	Basement SF	0
Year Built **1946**	Eff Year Built **1946**	Year Remodeled	**0**
Square Footage **1261**			

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Legal Description

LT 12 BLK 6

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Tulsa County Records [OK]

Owner Information

TUCKER, RAYMOND L & EMILE D

.

PO BOX 1909

SAND SPRINGS, OK 74063

Property Address

5039 S 35 AV W

Building No. 1

Account Number 014 R06675922801930

Sub Name: **CARBONDALE THIRD ADDN**

Lot: **15** Block: **7**

Area Name: **TULSA CITY**

Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$37100		$4081
Mobile	$0		$0
Total	$50100		$5511
		Exemptions	$0
School District	T-1A	Net Assessed	$5511
School Levy	$134.51	Estimated Taxes	**$741.28**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	286
Slab Roof Ceil	0	X	42
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Sales Information

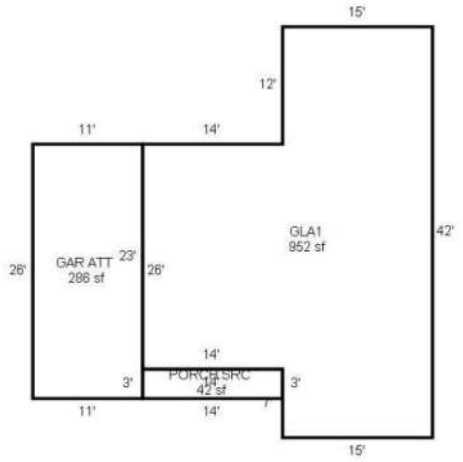
Sale Date	Sale Price	Book/Page	$/SF
20121220	201000	0/0	211.13
Grantor: AMERICAN HERITAGE BANK			
20121016	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
19990901	21000	06273/01314	22.06
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 286
Porch	Porch: Slab Roof Ceil		Porch SF 42
Basement	N/A		Basement SF 0
Year Built	**1935**	Eff Year Built **1935**	Year Remodeled **0**
Square Footage	**952**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Legal Description

LT 15 BLK 7

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Tulsa County Records [OK]

Owner Information
BLAKE, KEVIN
.
8812 E 110TH ST
TULSA, OK 74133

Property Address
5043 S 35 AV W

Building No. 1

Account Number: 015 R06675922801920

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **14** Block: **7**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$22500		$2475
Mobile	$0		$0
Total	$35500		$3905
		Exemptions	$0
School District	T-1A	Net Assessed	$3905
School Levy	$134.51	Estimated Taxes	**$525.26**

Land Information
Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description: N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20081216	22000	0/0	23.01

Grantor: BANK OF AMERICA NA

Sale Date	Sale Price	Book/Page	$/SF
20080617	0	00000/00000	0

Grantor: SHERIFF TULSA CO

Sale Date	Sale Price	Book/Page	$/SF
20041117	0	00000/00000	0

Grantor: MOORE & MOORE CAPITAL LLC

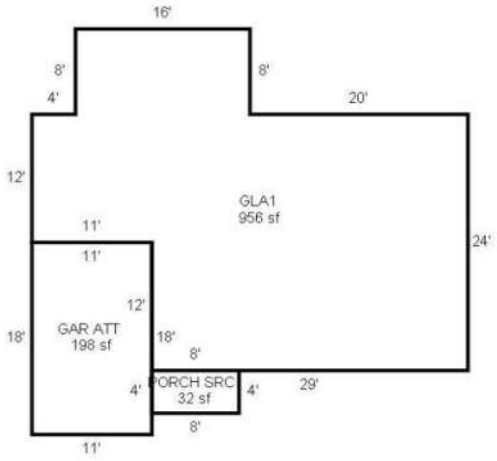
Mobile Home Information
Serial No.
Make
Tag No. LxW 0 x 0

Building Elements
Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair Plus Interior Finish: N/A
Condition: Avg
Roof: N/A Composition Shingle
Exterior Wall: Frame Siding N/A
Foundation: Crawl Space Fireplace: N/A
Heat: None Air: N/A
Beds: 0 Baths: 1 Total Rooms: 0
Garage: Garage: Attached Garage SF: 198
Porch: Porch: Slab Roof Ceil Porch SF: 32
Basement: N/A Basement SF: 0
Year Built: **1940** Eff Year Built: **1940** Year Remodeled: **0**
Square Footage: **956**

Commercial Elements
Stories: N/A Story Height: 00 Perimeter: 0
Units: 0 Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	198
Slab Roof Ceil	0	X	32
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description
LT 14 BLK 7

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Tulsa County Records [OK]

Owner Information

KEMPER, PAULA K
.
3412 W 51ST ST
TULSA, OK 74107

Property Address

5047 S 35 AV W

Building No. 1

Account Number 016 R06675922801910

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **13** Block: **7**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$41200		$4532
Mobile	$0		$0
Total	$54200		$5962
		Exemptions	$0
School District	T-1A	Net Assessed	$5962
School Levy	$134.51	Estimated Taxes	**$801.95**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20121218	46500	0/0	43.38
Grantor: NEUFELD, LEROY			
20070329	0	00000/00000	0
Grantor: NEUFELD, LEROY			
20030401	51000	07001/00268	47.57
Grantor:			

Building Elements

Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair — Interior Finish: N/A
Condition: Good
Roof: N/A — Composition Shingle
Exterior Wall: Frame Siding — N/A
Foundation: Crawl Space — Fireplace: N/A
Heat: Cool Air in Heat Ducts — Air: N/A
Beds: 0 — Baths: 1 — Total Rooms: 0
Garage: Garage: Attached — Garage SF: 550
Porch: Porch: Slab Roof Ceil — Porch SF: 45
Basement: N/A — Basement SF: 0
Year Built: **1935** — Eff Year Built: **1935** — Year Remodeled: **0**
Square Footage: **1072**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description: N/A

Mobile Home Information

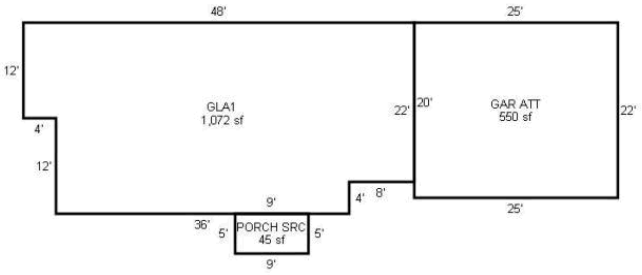
Serial No.
Make
Tag No. — LxW: 0 x 0

Commercial Elements

Stories: N/A — Story Height: 00 — Perimeter: 0
Units: 0 — Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	550
Slab Roof Ceil	0	X	45
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 13 BLK 7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CARTER, CHRISTOPHER M & MADELINE P
.
5040 S 34TH W AVE
TULSA, OK 74107

Property Address

5040 S 34 AV W TULSA 741070000

Building No. 1

Account Number 017 R06675922801880

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **10** Block: **7**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$53000		$5830
Mobile	$0		$0
Total	$66000		$7260
		Exemptions	$0
School District	T-1A	Net Assessed	$7260
School Levy	$134.51	Estimated Taxes	**$976.54**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150330	66000	0/0	55

Grantor: WERNER, ROBERT

Sale Date	Sale Price	Book/Page	$/SF
20140819	0	0/0	0

Grantor: HUD

Sale Date	Sale Price	Book/Page	$/SF
20140520	0	0/0	0

Grantor: CITIMORTGAGE INC

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

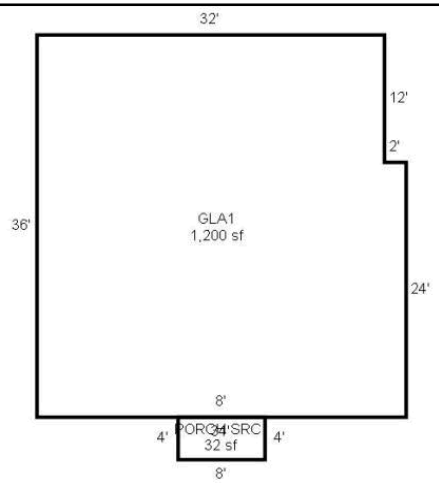
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Avg +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 32
Basement N/A Basement SF 0
Year Built **1930** Eff Year Built **1930** Year Remodeled **0**
Square Footage **1200**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	32
Standard	0	X	5
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 10 BLK 7

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Tulsa County Records [OK]

Owner Information

WALLS, KRISTIN C R
.
5044 S 34TH WEST AVE
TULSA, OK 74107

Property Address

5044 S 34 AV W TULSA 000000000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$13000	$1430
Mobile	$0	$0
Total	$65000	$7150
	Exemptions	$1000
School District T-1A	Net Assessed	$6150
School Levy $134.51	Estimated Taxes	**$827.24**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	210
Slab Roof Ceil	0	X	24
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 018 R06675922801890

Sub Name: **CARBONDALE THIRD ADDN**

Lot: **11** Block: **7**

Area Name: **TULSA CITY**

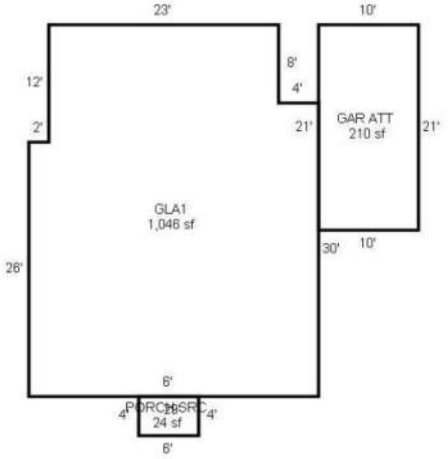
Section **28** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150825	65000	0/0	62.14
Grantor: EWING, KELI			
20080923	67500	0/0	64.53
Grantor: VANN, LARRY EUGENE			
20070801	43000	00000/00000	41.11
Grantor: COLE, THOMAS OWEN			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	Drywall
Condition	Avg		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 210
Porch	Porch: Slab Roof Ceil		Porch SF 24
Basement	N/A		Basement SF 0
Year Built	**1935**	Eff Year Built **1935**	Year Remodeled **0**
Square Footage	**1046**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Legal Description

LT 11 BLK 7

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Tulsa County Records [OK]

Owner Information

WHEAT, LAWRENCE WESLEY & ROSA MAE TTEES
LAWRENCE WESLEY & ROSA MAE WHEAT TR
4735 S 32ND WEST AVE
TULSA, OK 74107

Property Address

5048 S 34 AV W

Building No. 1

Account Number 019 R06675922801900

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **12** Block: **7**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$22500		$2475
Mobile	$0		$0
Total	$35500		$3905
		Exemptions	$0
School District	T-1A	Net Assessed	$3905
School Levy	$134.51	Estimated Taxes	**$525.26**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20081226	0	0/0	0
Grantor: WHEAT, LAWRENCE & ROSA			
20081006	35500	0/0	38.17
Grantor: POWELL PROPERTIES INC			
20070701	33000	00000/00000	35.48
Grantor: COLLINS, MICHAEL, PERSONAL REPRESENTATIVE			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 220
Porch Porch: Slab Roof Ceil Porch SF 20
Basement N/A Basement SF 0
Year Built **1930** Eff Year Built **1930** Year Remodeled **0**
Square Footage **930**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

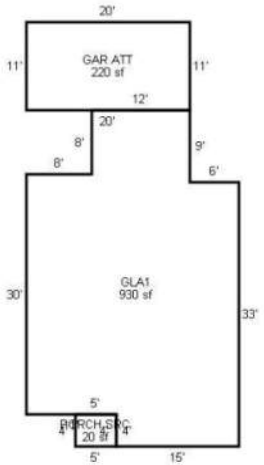
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	220
Slab Roof Ceil	0	X	20
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 12 BLK 7

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Tulsa County Records [OK]

Owner Information

DENNEY, CHARLES JASON
.
5039 S 34TH W AVE
TULSA, OK 74107

Property Address

5039 S 34 AV W

Building No. 1

Account Number 020 R06675922802150

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **15** Block: **8**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$41700		$4587
Mobile	$0		$0
Total	$54700		$6017
		Exemptions	$0
School District	T-1A	Net Assessed	$6017
School Levy	$134.51	Estimated Taxes	**$809.35**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030701	55000	07098/01451	63.22
Grantor:			
19950201	29000	05690/02650	33.33
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

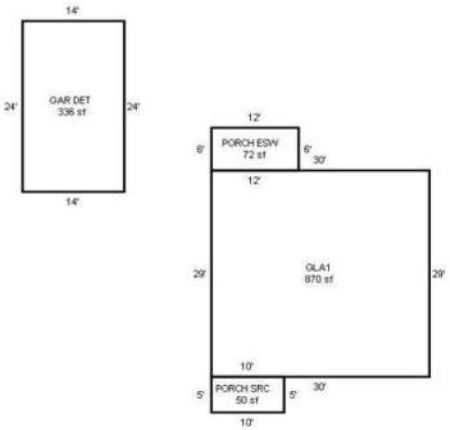
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Very Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 336
Porch N/A Porch SF 122
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **870**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	336
Carport 200 Sf	0	X	300
Encl Solid Wall	0	X	72
Slab Roof Ceil	0	X	50
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 15 BLK 8

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Tulsa County Records [OK]

Owner Information

FIELDS, BOBBY LAWRENCE AND
SANDRA K
3702 S 63RD WEST AVE
TULSA, OK 74107

Property Address

5043 S 34 AV W

Building No. 1

Account Number 021 R06675922802140

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **14** Block: **8**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13000		$1430
Mobile	$0		$0
Total	$40600		$4466
		Exemptions	$0
School District	T-1A	Net Assessed	$4466
School Levy	$134.51	Estimated Taxes	**$600.72**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20071108	0	00000/00000	0
Grantor: FIELDS, BOBBY LAWRENCE			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

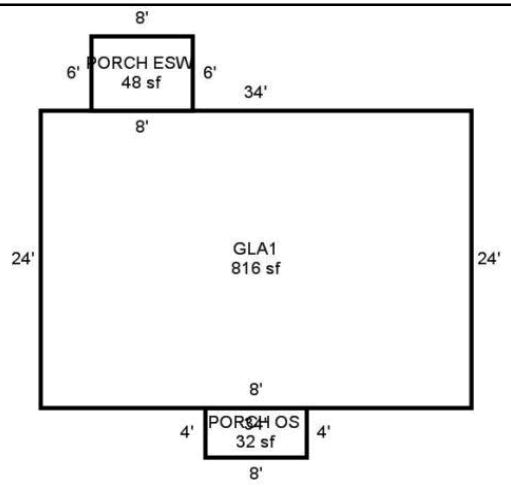
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Encl Solid Wall Porch SF 48
Basement N/A Basement SF 0
Year Built **1942** Eff Year Built **1942** Year Remodeled **0**
Square Footage **816**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 200 Sf	0	X	300
Encl Solid Wall	0	X	48
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 14 BLK 8

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Tulsa County Records [OK]

Owner Information

BRUDER, DANIEL LLOYD
.
5047 S 34TH WEST AVE
TULSA, OK 74107

Property Address

5047 S 34 AV W TULSA 000000000

Building No. 1

Account Number 022 R06675922802130

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **13** Block: **8**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$61000		$5886
Mobile	$0		$0
Total	$74000		$8140
		Exemptions	$1000
School District	T-1A	Net Assessed	$7140
School Levy	$134.51	Estimated Taxes	**$960.4**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110309	74000	0/0	68.52
Grantor: WRAY, KAMA M			
20101012	41000	0/0	37.96
Grantor: SCHUPP, MICHAEL RODNEY			
20100415	28000	0/0	25.93
Grantor: CITIFINANCIAL SERVICES INC			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1607	7000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

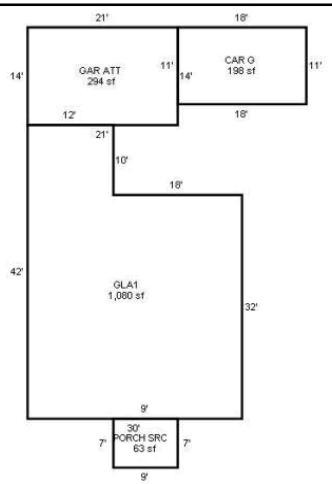
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 294
Porch Porch: Slab Roof Ceil Porch SF 63
Basement N/A Basement SF 0
Year Built **1941** Eff Year Built **1941** Year Remodeled **0**
Square Footage **1080**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Att Stg 180 Sf	0	X	400
Attached	0	X	294
Gable	0	X	198
Slab Roof Ceil	0	X	63
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0



Legal Description

LT 13 BLK 8

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Tulsa County Records [OK]

Owner Information

RETAIL BUILDINGS INC
C/O JACOBI & ASSOC
PO BOX 702377
TULSA, OK 741702377

Property Address

5048 S 33 AV W TULSA 000000000

Building No. 1

Account Number 023 R06675922802110

Sub Name: **CARBONDALE THIRD ADDN**
Lot: **11** Block: **8**
Area Name: **TULSA CITY**
Section **28** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$218800		$24068
Mobile	$0		$0
Total	$458800		$50468
		Exemptions	$0
School District	T-1A	Net Assessed	$50468
School Levy	$134.51	Estimated Taxes	**$6788.45**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19881107	0	05138/01708	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.9183	40000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type	Commercial		
Style	Fast Food Restaurant		
Design	Fast Food Restaurant		
Quality	Average Plus	Interior Finish	N/A
Condition	Avg +		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Complete HVAC	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1989**	Eff Year Built **1989**	Year Remodeled **0**
Square Footage	**3191**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	254
Units	1	Rent	000		
Class Description	Metal Frame				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	23000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

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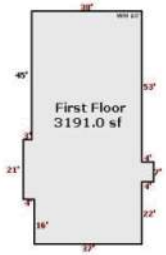

Legal Description

LTS 7 THRU 12 LESS E5 LTS 7 & 8 & LESS E15 LTS 9 & 10 FOR RD BLK 8

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

TULSA 000000000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$100	$0
Mobile	$0	$0
Total	$	$
	Exemptions	$
School District T-1A	Net Assessed	$
School Levy $134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0459	2000	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. **0**

Account Number **R06675922802109**

024

Sub Name: **CARBONDALE THIRD ADDN**

Lot: Block:

Area Name: **TULSA CITY**

Section **28** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19930406	0	05490/02342	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Legal Description

E5 LTS 7 & 8 & E15 LTS 9 & 10 BLK 8

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF HWYS R/W DIV
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **025** **R38975923308760**

Sub Name: **SOUTH HAVEN AMD**
Lot: Block:
Area Name: **TULSA RURAL**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$382		$42
Mobile	$0		$0
Total	$382		$42
		Exemptions	$0
School District	1B	Net Assessed	$42
School Levy	$111.72	Estimated Taxes	**$4.69**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.1337	92944	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRTLTS6THRU11BEGSECRLT6THW182.86NE20SE172.60POB&ALLLTS1213&14BLK1&N65LTS1THRU4BLK17&PRTLTS45&6BEGSECRLT4THNW78.32S22.50E75POB&PRTLT6BEG10.25SNWCTHS47.38NE5

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Tulsa County Records [OK]

Owner Information

LUGINBILL, SANDRA S & DELBERT B
.
823 W PINE AVE
ENID, OK 73701

Property Address

3758 W 51 ST S TULSA 741070000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$9400	$1034
Mobile	$0	$0
Total	$9400	$1034
	Exemptions	$0
School District 1B	Net Assessed	$1034
School Levy $111.72	Estimated Taxes	**$115.52**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.416	18123	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. **0**

Account Number **R38975923308710** 025A

Sub Name: **SOUTH HAVEN AMD**

Lot: Block:

Area Name: **TULSA RURAL**

Section **33** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140116	0	0/0	0

Grantor: LUGINBILL, DELBERT

Sale Date	Sale Price	Book/Page	$/SF
20120503	13000	0/0	0

Grantor: TANKERSLEY, CHRIS AND JEANETTE

Sale Date	Sale Price	Book/Page	$/SF
20050927	0	00000/00000	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Legal Description

LTS 6 THRU 11 LESS BC SEC LT 6 TH W 182.86 NELY 20 SE 172.60TO BG BLK 1

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Tulsa County Records [OK]

Owner Information

LUGINBILL, SANDRA S
.
823 E PINE AVE
ENID, OK 73701

Property Address

SAPULPA 000000000

Building No. **0**

Account Number **026** **R38975923308700**

Sub Name: **SOUTH HAVEN AMD**

Lot: **5** Block: **1**

Area Name: **TULSA RURAL**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1800		$198
Mobile	$0		$0
Total	$1800		$198
		Exemptions	$0
School District	1B	Net Assessed	$198
School Levy	$111.72	Estimated Taxes	**$22.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140116	0	0/0	0

Grantor: LUGINBILL, DELBERT

Sale Date	Sale Price	Book/Page	$/SF
20120503	13000	0/0	0

Grantor: TANKERSLEY, CHRIS AND JEANETTE

Sale Date	Sale Price	Book/Page	$/SF
20050927	0	00000/00000	0

Grantor:

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.0775	3375	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 5 BLK 1

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Tulsa County Records [OK]

Owner Information

LUGINBILL, SANDRA S
.
823 E PINE AVE
ENID, OK 73701

Property Address

SAPULPA 000000000

Building No. **0**

Account Number **027** **R38975923308690**

Sub Name: **SOUTH HAVEN AMD**

Lot: **4** Block: **1**

Area Name: **TULSA RURAL**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1800		$198
Mobile	$0		$0
Total	$1800		$198
		Exemptions	$0
School District	1B	Net Assessed	$198
School Levy	$111.72	Estimated Taxes	**$22.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140116	0	0/0	0

Grantor: LUGINBILL, DELBERT

Sale Date	Sale Price	Book/Page	$/SF
20120503	13000	0/0	0

Grantor: TANKERSLEY, CHRIS AND JEANETTE

Sale Date	Sale Price	Book/Page	$/SF
20050927	0	00000/00000	0

Grantor:

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.0775	3375	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 4 BLK 1

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Tulsa County Records [OK]

Owner Information

LUGINBILL, SANDRA S
.
823 E PINE AVE
ENID, OK 73701

Property Address

3704 W 51 ST S TULSA 000000000

Building No. 1

028

Account Number R38975923308680

Sub Name: **SOUTH HAVEN AMD**

Lot: **1** Block: **1**

Area Name: **TULSA RURAL**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$78435		$8628
Mobile	$0		$0
Total	$89985		$9899
		Exemptions	$0
School District	1B	Net Assessed	$9899
School Levy	$111.72	Estimated Taxes	**$1105.92**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140116	0	0/0	0
Grantor: LUGINBILL, DELBERT			
20111213	0	0/0	0
Grantor: HUD			
20110623	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			

Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	Drywall
Condition	Good		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Masonry Veneer		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1.1	Total Rooms 0
Garage	Garage: Attached		Garage SF 506
Porch	N/A		Porch SF 236
Basement	N/A		Basement SF 0
Year Built	**1960**	Eff Year Built **1960**	Year Remodeled **0**
Square Footage	**1495**		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2324	10125	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

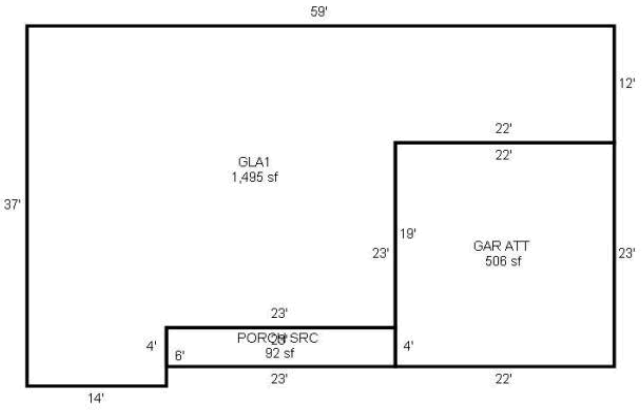
Stories N/A Story Height 00 Perimeter 0

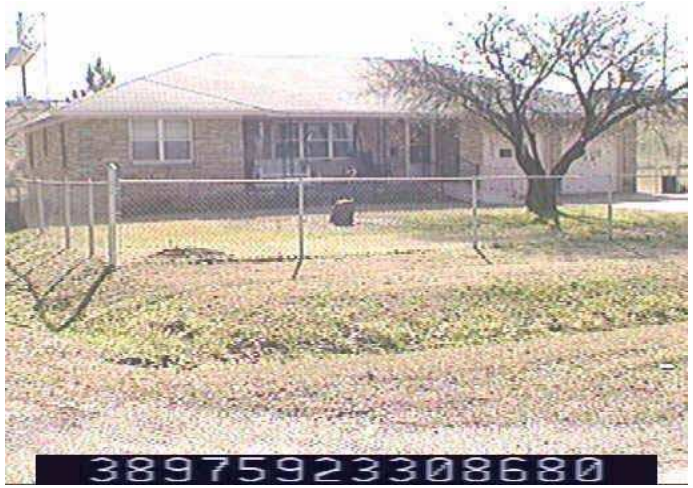
Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	506
Open Slab	0	X	144
Slab Roof Ceil	0	X	92
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0





Legal Description

LTS 1 2 3 BLK 1

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Tulsa County Records [OK]

Owner Information

VANN, JAMES ELMER
.
PO BOX 9301
TULSA, OK 741570301

Property Address

3624 W 51 ST S

Building No. 1

Account Number 029 R35075923302210

Sub Name: **RICHMOND ACRES**
Lot: **3** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$36256		$3202
Mobile	$0		$0
Total	$46144		$5076
		Exemptions	$1000
School District	T-1A	Net Assessed	$4076
School Levy	$134.51	Estimated Taxes	**$548.26**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19981201	41500	06147/01213	45.4
Grantor:			
19901001	15000	05285/01503	16.41
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1487	6477	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

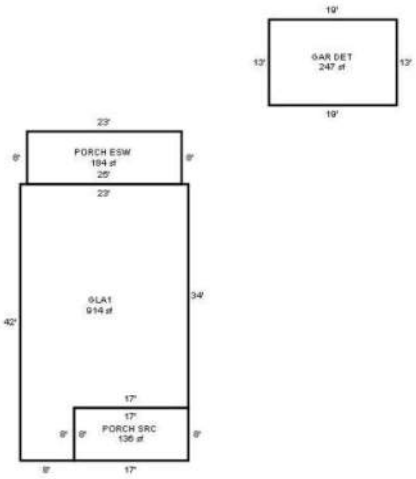
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Detached		Garage SF 247
Porch	N/A		Porch SF 320
Basement	N/A		Basement SF 0
Year Built	**1935**	Eff Year Built **1935**	Year Remodeled **0**
Square Footage	**914**		

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	247
Encl Solid Wall	0	X	184
Slab Roof Ceil	0	X	136
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W50.83 LT 3 BLK 4

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Tulsa County Records [OK]

Owner Information

GRODEN, JAMES E AND ROZENA R
.
3620 W 51ST ST
TULSA, OK 741077347

Property Address

3620 W 51 ST S

Building No. 1

Account Number 030 R35075923302215

Sub Name: **RICHMOND ACRES**
Lot: **3** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$9888		$810
Mobile	$0		$0
Total	$35535		$3909
		Exemptions	$1000
School District	T-1A	Net Assessed	$2909
School Levy	$134.51	Estimated Taxes	**$391.29**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19770816	0	04279/00131	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1487	6477	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

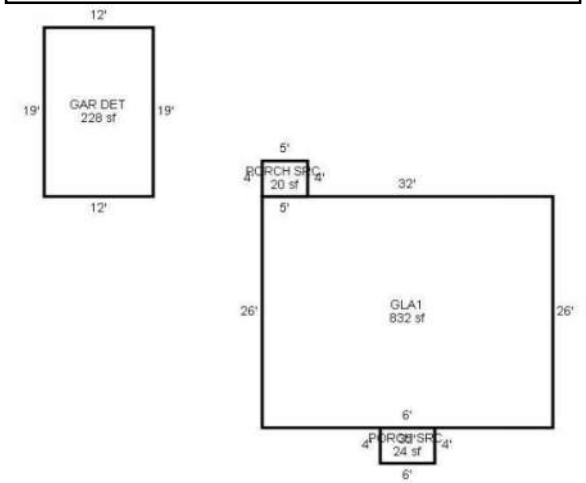
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 228
Porch Porch: Slab Roof Ceil Porch SF 44
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **832**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	228
Open Patio 228 Sf	0	X	200
Slab Roof Ceil	0	X	44
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E50.84 LT 3 BLK 4

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Tulsa County Records [OK]

Owner Information

STACY, SHEILA JEAN
.
3616 W 51ST ST
TULSA, OK 74107

Property Address

3616 W 51 ST S TULSA 000000000

Building No. 1

Account Number 031 R35075923302220

Sub Name: **RICHMOND ACRES**
Lot: **2** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14300		$977
Mobile	$0		$0
Total	$24000		$2640
		Exemptions	$1000
School District	T-1A	Net Assessed	$1640
School Levy	$134.51	Estimated Taxes	**$220.6**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20060601	7000	00000/00000	17.5
Grantor: JOHNSON, SHIRLEY A			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1516	6604	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

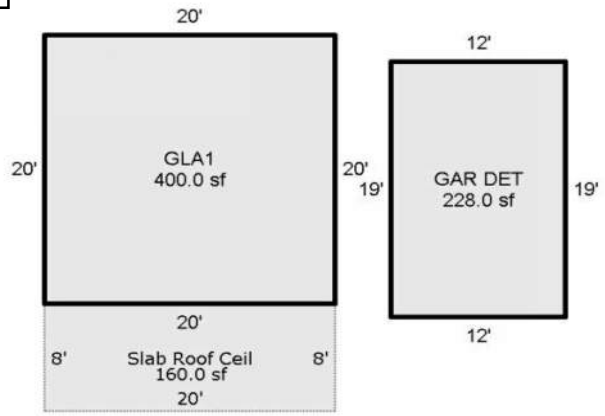
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Low Interior Finish Drywall
Condition Fair
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 228
Porch Porch: Cvrd Wood Deck Porch SF 160
Basement N/A Basement SF 0
Year Built **1935** Eff Year Built **1935** Year Remodeled **0**
Square Footage **400**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	228
Cvrd Wood Deck	0	X	160
Standard	0	X	5
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W50.53 LT 2 BLK 4

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Tulsa County Records [OK]

Owner Information

OAKLEY PROPERTIES LLC
.
4235 S 33RD WEST AVE
TULSA, OK 741075904

Property Address

3612 W 51 ST S TULSA 000000000

Building No. 1

Account Number 032 R35075923302225

Sub Name: **RICHMOND ACRES**
Lot: **2** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$9975		$1097
Mobile	$0		$0
Total	$35700		$3927
		Exemptions	$0
School District	T-1A	Net Assessed	$3927
School Levy	$134.51	Estimated Taxes	**$528.22**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160108	0	0/0	0
Grantor: OAKLEY, SHELBY D			
20140610	0	0/0	0
Grantor: TULSA COUNTY TREASURER			
19980331	0	06030/01523	0
Grantor:			

Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached	Garage SF	286
Porch	Porch: Slab Roof Ceil	Porch SF	40
Basement	N/A	Basement SF	0
Year Built	**1950**	Eff Year Built **1950**	Year Remodeled **0**
Square Footage	**878**		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1458	6350	0	0

Description N/A

Mobile Home Information

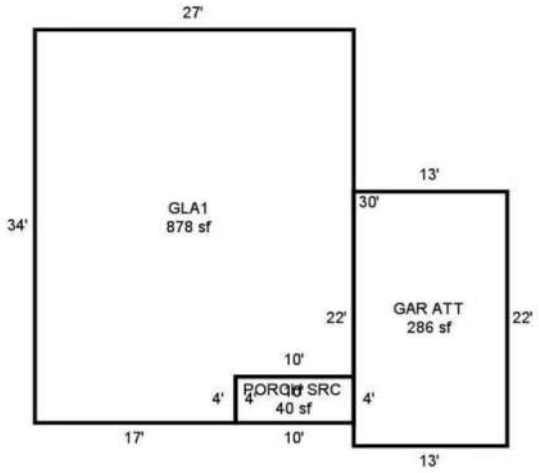
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	286
Slab Roof Ceil	0	X	40
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E50.84 LT 2 BLK 4

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Tulsa County Records [OK]

Owner Information

OAKLEY PROPERTIES LLC
.
4235 S 33RD WEST AVE
TULSA, OK 741075904

Property Address

5104 S 36 AV W

Taxable Market		Assessed Value
Land	$0	$0
Improved	$18000	$1980
Mobile	$0	$0
Total	$28000	$3080
	Exemptions	$0
School District T-1A	Net Assessed	$3080
School Levy $134.51	Estimated Taxes	**$414.29**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2974	12954	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	288
Slab Roof Ceil	0	X	112
Encl Solid Wall	0	X	55
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 033 R35075923302200

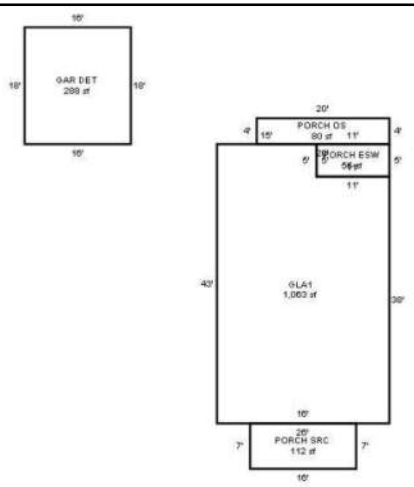
Sub Name: **RICHMOND ACRES**
Lot: **1** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150609	0	0/0	0
Grantor: TULSA COUNTY TREASURER			
19820805	0	04629/01749	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Low Plus Interior Finish N/A
Condition Fair
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 288
Porch N/A Porch SF 167
Basement N/A Basement SF 0
Year Built **1930** Eff Year Built **1930** Year Remodeled **0**
Square Footage **1063**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Legal Description

LT 1 BLK 4

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Tulsa County Records [OK]

Owner Information

REED, SHERRY KATHLEEN
.
3911 S 55TH WEST AVE
TULSA, OK 74107

Property Address

5112 S 36 AV W

Taxable Market		Assessed Value
Land	$0	$0
Improved	$12360	$1014
Mobile	$0	$0
Total	$35741	$3932
	Exemptions	$1000
School District T-1A	Net Assessed	$2932
School Levy $134.51	Estimated Taxes	**$394.38**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4443	19355	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Cpt 120 Sf	0	X	100
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 034 R35075923302240

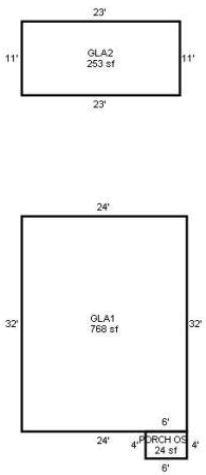
Sub Name: **RICHMOND ACRES**
Lot: **4** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19960301	25000	05793/00430	24.49
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	1½ Story Fin		
Quality	Low Plus	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds 0	Baths 1	Total Rooms	0
Garage	N/A	Garage SF	0
Porch	N/A	Porch SF	0
Basement	N/A	Basement SF	0
Year Built **1935**	Eff Year Built **1935**	Year Remodeled	**0**
Square Footage **1021**			

Commercial Elements

Stories N/A	Story Height 00	Perimeter	0
Units 0	Rent 000		
Class Description N/A			

Legal Description

N63.46 LT 4 BLK 4

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 035 R35075923302010

Sub Name: **RICHMOND ACRES**
Lot: Block:
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$848		$93
Mobile	$0		$0
Total	$848		$93
		Exemptions	$0
School District	T-1A	Net Assessed	$93
School Levy	$134.51	Estimated Taxes	**$12.51**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	5.0393	219511	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 3 & 10 THRU 12 & ALL LTS 4 THRU 9 BLK 1 & PRT LTS 1 THRU 3 & 5 & ALL LT 4 BLK 3 & PRT LTS 4 & 7 & ALL LTS 5 & 6 BLK 4 & STREETS & ALLEYS ADJ THEREOF

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Tulsa County Records [OK]

Owner Information

GLENCO INVESTMENTS LLC
.
6201 KLUSMAN AVE
ALTA LOMA, CA 91737

Property Address

3522 W 51 ST S TULSA 000000000

Building No. 1

Account Number 036 R35075923302130

Sub Name: **RICHMOND ACRES**
Lot: **3** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$42105		$4632
Mobile	$0		$0
Total	$51975		$5718
		Exemptions	$0
School District	T-1A	Net Assessed	$5718
School Levy	$134.51	Estimated Taxes	**$769.13**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140618	0	0/0	0
Grantor: COZART, GLEN			
20080828	9000	0/0	10.07
Grantor: BURKETT, GLENN M			
19830720	0	04708/00339	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1435	6250	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

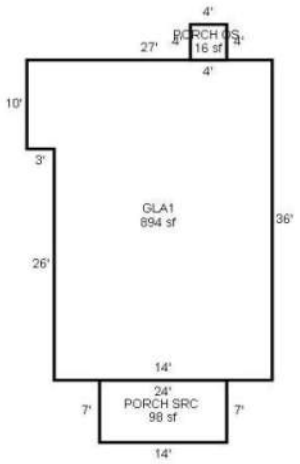
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Low Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 98
Basement N/A Basement SF 0
Year Built **1930** Eff Year Built **1930** Year Remodeled **0**
Square Footage **894**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	98
Standard	0	X	5
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W 50 OF N 124.5 - LT 3 BLK 3

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Tulsa County Records [OK]

Owner Information

LUGINBILL, SANDRA S
.
823 E PINE AVE
ENID, OK 73701

Property Address

3518 W 51 ST S

Building No. 1

Account Number 037 R35075923302110

Sub Name: **RICHMOND ACRES**
Lot: **3** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$42420		$4666
Mobile	$0		$0
Total	$52500		$5775
		Exemptions	$0
School District	T-1A	Net Assessed	$5775
School Levy	$134.51	Estimated Taxes	**$776.8**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140116	0	0/0	0
Grantor: LUGINBILL, DELBERT			
20071204	0	00000/00000	0
Grantor: LUGINBIL, ANDY DEL			
20070501	50000	00000/00000	51.02
Grantor: TAYLOR, JAMES MICHAEL			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1492	6500	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

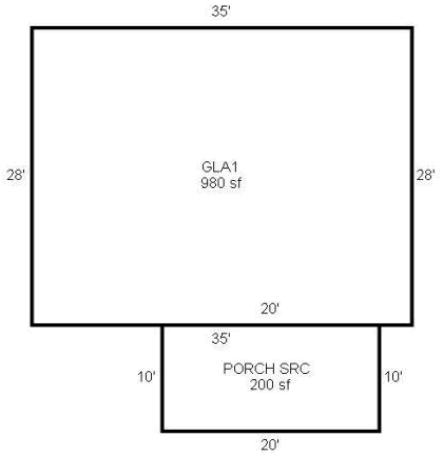
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 200
Basement N/A Basement SF 0
Year Built **1944** Eff Year Built **1944** Year Remodeled **0**
Square Footage **980**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Storage 192 Sf	0	X	250
Slab Roof Ceil	0	X	200
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E 51.67 OF N 124.5 OF LT 3 BLK 3

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Tulsa County Records [OK]

Owner Information

SHORES, ORVILLE DUNCAN-DONNIE
LLC
2626 W SKELLY DR
TULSA, OK 74107

Property Address

5105 S 36 AV W

Building No. 1

Account Number 038 R35075923302120

Sub Name: **RICHMOND ACRES**
Lot: **3** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11655		$1282
Mobile	$0		$0
Total	$42840		$4712
		Exemptions	$0
School District	T-1A	Net Assessed	$4712
School Levy	$134.51	Estimated Taxes	**$633.81**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000420	0	06354/00456	0
Grantor:			
19980601	37500	06064/00542	46.88
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2579	11235	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

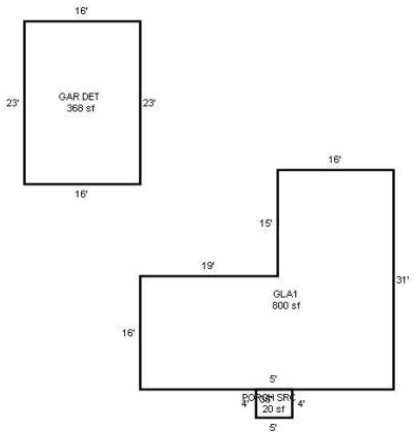
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 368
Porch Porch: Slab Roof Ceil Porch SF 20
Basement N/A Basement SF 0
Year Built **1935** Eff Year Built **1935** Year Remodeled **0**
Square Footage **800**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	368
Slab Roof Ceil	0	X	20
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT LT 3 BEG 29N SWC TH SE102.41 N120.5 W101.67 S100.5 POB BLK 3

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Tulsa County Records [OK]

Owner Information

BRYAN, PATRICK S AND JAMIE D
.
3516 W 51ST ST
TULSA, OK 741077418

Property Address

3516 W 51 ST S

Building No. 1

Account Number 039 R35075923302105

Sub Name: **RICHMOND ACRES**
Lot: **2** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$70452		$6891
Mobile	$0		$0
Total	$81988		$9019
		Exemptions	$1000
School District	T-1A	Net Assessed	$8019
School Levy	$134.51	Estimated Taxes	**$1078.64**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19990908	0	06267/00990	0
Grantor:			
19880101	40500	05078/00514	28.99
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2859	12453	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

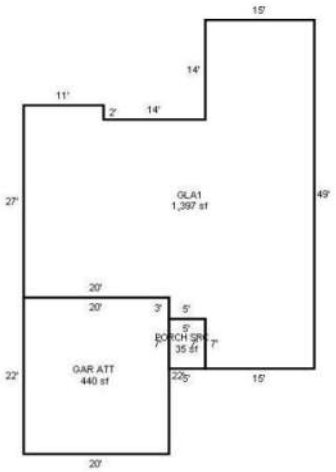
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	Drywall
Condition	Avg		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1.1	Total Rooms 0
Garage	Garage: Attached		Garage SF 440
Porch	Porch: Slab Roof Ceil		Porch SF 35
Basement	N/A		Basement SF 0
Year Built	**1985**	Eff Year Built **1985**	Year Remodeled **0**
Square Footage	**1397**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	440
Patio 168 Sf	0	X	150
Slab Roof Ceil	0	X	35
Standard	0	X	7
Dishwasher	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
N/A	0		0



Legal Description

W/2 LT 2 LESS S9 BLK 3

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Tulsa County Records [OK]

Owner Information

ROSAS, ALICIA

.

3514 W 51ST ST

TULSA, OK 74107

Property Address

3514 W 51 ST S

Building No. 1

Account Number 040 R35075923302100

Sub Name: **RICHMOND ACRES**

Lot: **2** Block: **3**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11536		$1099
Mobile	$0		$0
Total	$67980		$7478
		Exemptions	$1000
School District	T-1A	Net Assessed	$6478
School Levy	$134.51	Estimated Taxes	**$871.36**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20050401	66000	00000/00000	76.39
Grantor: MEDINA, ABEL G			
20001101	40000	06452/00204	46.3
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Detached	Garage SF	192
Porch	Porch: Encl Solid Wall	Porch SF	112
Basement	N/A	Basement SF	0
Year Built	**1916**	Eff Year Built **1916**	Year Remodeled **0**
Square Footage	**864**		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2859	12453	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

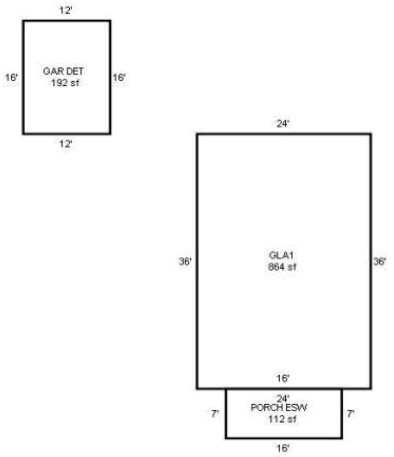
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 240 Sf	0	X	350
Detached	0	X	192
Encl Solid Wall	0	X	112
Standard	0	X	3
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E/2 LT 2 LESS S9 BLK 3

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Tulsa County Records [OK]

Owner Information

MEDINA, ABEL AND ANITA
.
3506 W 51ST ST
TULSA, OK 741077418

Property Address

3506 W 51 ST S

Building No. 1

Account Number 041 R35075923302080

Sub Name: **RICHMOND ACRES**
Lot: Block:
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$34020		$3742
Mobile	$0		$0
Total	$47250		$5197
		Exemptions	$0
School District	T-1A	Net Assessed	$5197
School Levy	$134.51	Estimated Taxes	**$699.05**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20061001	45000	00000/00000	27.14
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Detached Garage SF 480
Porch Porch: Slab Roof Ceil Porch SF 105
Basement N/A Basement SF 0
Year Built **1935** Eff Year Built **1935** Year Remodeled **0**
Square Footage **1658**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5737	24990	0	0

Description N/A

Mobile Home Information

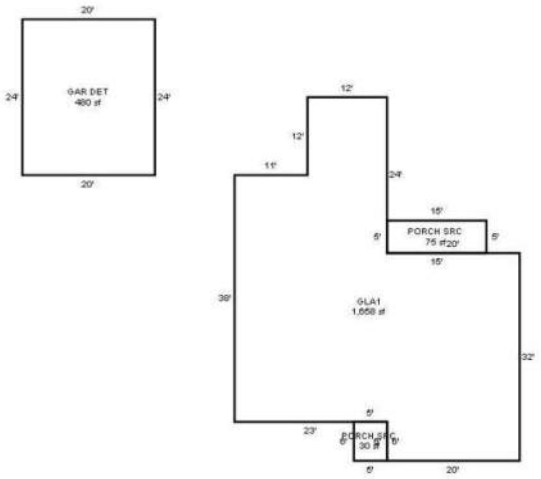
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Open Patio 405 Sf Stg 81 Sf	0	X	650
Detached	0	X	480
Slab Roof Ceil	0	X	105
Standard	0	X	6
Laundry Facility	0	X	1
Dishwasher	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W1.3 S143 LT 4 BLK 2 ANDERSON RESUB & LT 1 LESS S9 LT 1 BLK 3

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Tulsa County Records [OK]

Owner Information

CLANTON, JIM D AND TERI D
.
3418 W 51ST ST
TULSA, OK 74107

Property Address

3418 W 51 ST S

Building No. 1

Account Number R01700923300120 (042)

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH
Lot: 4 Block: 2
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11124		$1096
Mobile	$0		$0
Total	$87138		$9586
		Exemptions	$1000
School District	T-1A	Net Assessed	$8586
School Levy	$134.51	Estimated Taxes	$1154.9

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20041001	83000	00000/00000	79.05
Grantor: CONVERSE, ROBERT E			
20031201	51000	07193/01031	48.57
Grantor:			
20021101	29600	06880/02183	28.19
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1995	8690	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

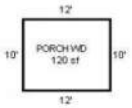
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	N/A
Condition	Good		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 440
Porch	Porch: Slab Roof Ceil		Porch SF 106
Basement	N/A		Basement SF 0
Year Built	**1963**	Eff Year Built **1963**	Year Remodeled **0**
Square Footage	**1050**		

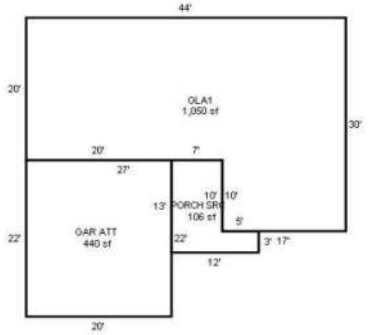
Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	440
Slab Roof Ceil	0	X	106
Standard	0	X	3
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
N/A	0		0





Legal Description

LT 4 LESS W1.3 S143 THEREOF BLK 2

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Tulsa County Records [OK]

Owner Information

KEMPER, PAULA K

.

3412 W 51ST ST

TULSA, OK 74107

Property Address

3412 W 51 ST S

Building No. 1

Account Number R01700923300110 (043)

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH

Lot: 3 Block: 2

Area Name: TULSA CITY

Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$31975		$1895
Mobile	$0		$0
Total	$39434		$4337
		Exemptions	$2000
School District	T-1A	Net Assessed	$2337
School Levy	$134.51	Estimated Taxes	$314.35

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2031	8848	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20151007	0	0/0	0

Grantor: KEMPER, DOROTHY JEAN

Sale Date	Sale Price	Book/Page	$/SF
20090625	0	0/0	0

Grantor: KEMPER, JAMES GALEN

Sale Date	Sale Price	Book/Page	$/SF
19900323	0	05243/00197	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Plus Interior Finish N/A

Condition Avg

Roof N/A Composition Shingle

Exterior Wall Frame Siding N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1 Total Rooms 0

Garage Garage: Detached Garage SF 676

Porch Porch: Slab Roof Ceil Porch SF 140

Basement N/A Basement SF 0

Year Built **1946** Eff Year Built **1946** Year Remodeled **0**

Square Footage **1110**

Commercial Elements

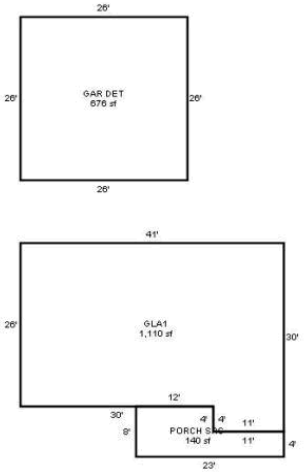
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	676
Slab Roof Ceil	0	X	140
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 3 BLK 2

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

HALL, JERRY L & SHANE LOWE
.
PO BOX 690292
TULSA, OK 741690292

Property Address

3408 W 51 ST S

Building No. 1

Account Number 044 R01700923300100

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH
Lot: 2 Block: 2
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$56910		$6260
Mobile	$0		$0
Total	$68250		$7507
		Exemptions	$0
School District	T-1A	Net Assessed	$7507
School Levy	$134.51	Estimated Taxes	**$1009.77**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100617	0	0/0	0
Grantor: HALL, JERRY			
20100617	35000	0/0	30.49
Grantor: FEDERAL NATL MTG ASSOC			
20100414	0	0/0	0
Grantor: SHERIFF TULSA COUNTY			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2031	8848	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

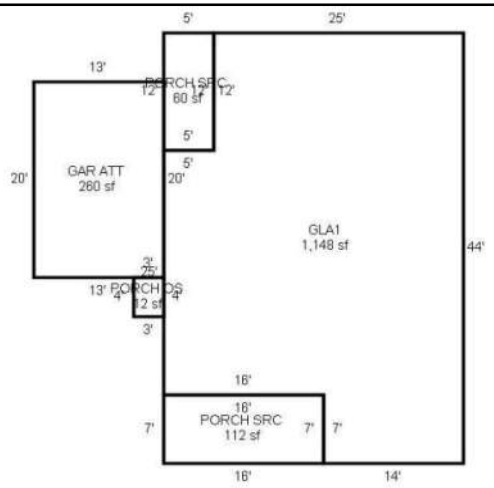
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 260
Porch N/A Porch SF 172
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **1148**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	260
Slab Roof Ceil	0	X	112
Slab Roof Ceil	0	X	60
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Security/Fire Alarm	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0



Legal Description

LT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

BLUESTONE PROPERTIES LLC
.
5880 S MINGO RD
TULSA, OK 74146

Property Address

3404 W 51 ST S TULSA 000000000

Building No. 1

Account Number R01700923300090

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH
Lot: 1 Block: 2
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$50295		$5532
Mobile	$0		$0
Total	$61635		$6779
		Exemptions	$0
School District	T-1A	Net Assessed	$6779
School Levy	$134.51	Estimated Taxes	$911.84

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090910	41000	0/0	36.25
Grantor: TULSA NATIONAL BANK			
20090622	0	0/0	0
Grantor: POTTORFF, THOMAS S			
20060824	0	00000/00000	0
Grantor: DERRICK, DOROTHY M, TRUST			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2031	8848	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

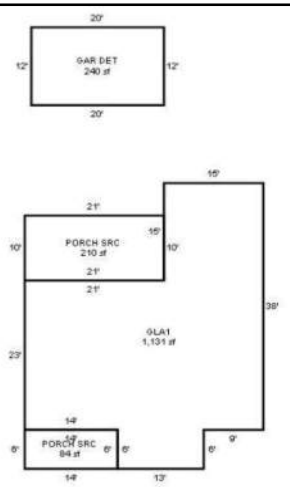
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Avg
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 240
Porch N/A Porch SF 294
Basement N/A Basement SF 0
Year Built **1942** Eff Year Built **1942** Year Remodeled **0**
Square Footage **1131**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 220 Sf Open Patio 105 Sf	0	X	400
Detached	0	X	240
Slab Roof Ceil	0	X	210
Slab Roof Ceil	0	X	84
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 1 BLK 2

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Tulsa County Records [OK]

Owner Information

WEST, JANET SUE TTEE
MARGARET L LOWERY FAMILY TR
C/O JANE S & BARRY WEST 5338 E 21ST PL
TULSA, OK 74114

Property Address

5116 S 34 AV W

Building No. 1

Account Number 046 R01700923300130

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**

Lot: **5** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$43575	$4793
Mobile	$0	$0
Total	$55965	$6156
	Exemptions	$0
School District	T-1A	Net Assessed $6156
School Levy	$134.51	Estimated Taxes **$828.04**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20131230	0	0/0	0
Grantor: LOWERY, MARGARET LAVON TRUSTEE			
19930419	0	05494/01094	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4011	17472	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

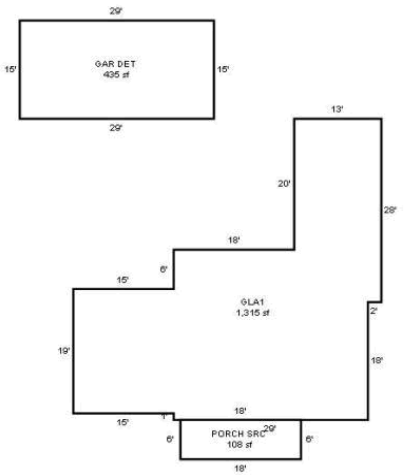
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	N/A
Condition	Avg +		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 2	Total Rooms 0
Garage	Garage: Detached	Garage SF	435
Porch	Porch: Slab Roof Ceil	Porch SF	108
Basement	N/A	Basement SF	0
Year Built	**1940**	Eff Year Built **1940**	Year Remodeled **0**
Square Footage	**1315**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	435
Slab Roof Ceil	0	X	108
Standard	0	X	6
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 5 & PT LT 6 BEG NEC TH S21 TH SWLY TO PT ON W L LT 19 N OF SWC TH N34 TO NWC TH E224 TO PT BEG BLK 2

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. 0

Account Number 047 R01700923300140

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH

Lot: Block:

Area Name: TULSA CITY

Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.0362	45136	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 6 & ALL LTS 7 8 9 & N17 OF LT 10 BLK 2

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Tulsa County Records [OK]

Owner Information

SALDEEN, LORI A
.
3936 E 32ND PL
TULSA, OK 74135

Property Address

3328 W 51 ST S

Building No. 1

Account Number 048 R01700923300080

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**

Lot: **25** Block: **1**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11340		$1247
Mobile	$0		$0
Total	$61950		$6814
		Exemptions	$0
School District	T-1A	Net Assessed	$6814
School Levy	$134.51	Estimated Taxes	**$916.55**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100709	0	0/0	0
Grantor: MITCHELL, KEVIN M			
20021001	59000	06862/01314	56.73
Grantor:			
19990801	48000	06265/01601	46.15
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1995	8690	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

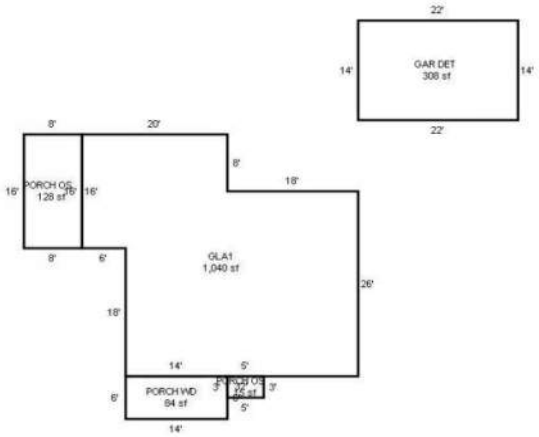
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 308
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1940** Eff Year Built **1940** Year Remodeled **0**
Square Footage **1040**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	308
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 25 BLK 1

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Tulsa County Records [OK]

Owner Information

SMITH, GENE AND SARA
.
4909 S 24TH W PL
TULSA, OK 74107

Property Address

3326 W 51 ST S

Building No. 1

Account Number 049 R01700923300070

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH
Lot: 24 Block: 1
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11340		$1247
Mobile	$0		$0
Total	$51345		$5648
		Exemptions	$0
School District	T-1A	Net Assessed	$5648
School Levy	$134.51	Estimated Taxes	$759.71

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19990101	38000	06160/01091	40.6
Grantor:			
19931001	26500	05553/02150	28.31
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1995	8690	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

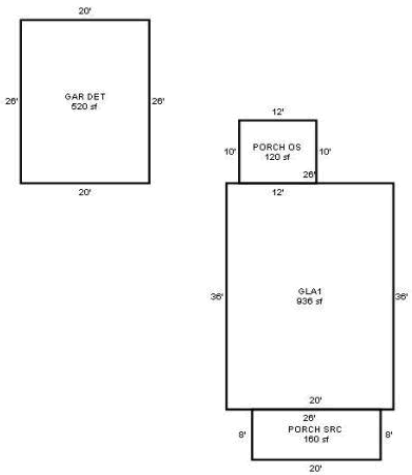
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 520
Porch Porch: Slab Roof Ceil Porch SF 160
Basement N/A Basement SF 0
Year Built **1935** Eff Year Built **1935** Year Remodeled **0**
Square Footage **936**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	520
Slab Roof Ceil	0	X	160
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 24 BLK 1

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Tulsa County Records [OK]

Owner Information

ROGERS, GARY W AND
DEBORAH L BROWN
3320 W 51ST ST
TULSA, OK 74107

Property Address

3320 W 51 ST S

Building No. 1

Account Number: 050 R01700923300060

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**
Lot: **22** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$11948	$1190
Mobile	$0	$0
Total	$96305	$10593
	Exemptions	$1000
School District	T-1A	Net Assessed $9593
School Levy	$134.51	Estimated Taxes **$1290.35**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040701	92500	00000/00000	104.17
Grantor: KIMES TRUST			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair Plus — Interior Finish: N/A
Condition: Avg
Roof: N/A — Composition Shingle
Exterior Wall: Frame Siding — N/A
Foundation: Crawl Space — Fireplace: N/A
Heat: Cool Air in Heat Ducts — Air: N/A
Beds: 0 — Baths: 2 — Total Rooms: 0
Garage: Garage: Attached — Garage SF: 286
Porch: Porch: Open Slab — Porch SF: 24
Basement: N/A — Basement SF: 0
Year Built: **1945** — Eff Year Built: **1945** — Year Remodeled: **0**
Square Footage: **888**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3627	15800	0	0

Description: N/A

Mobile Home Information

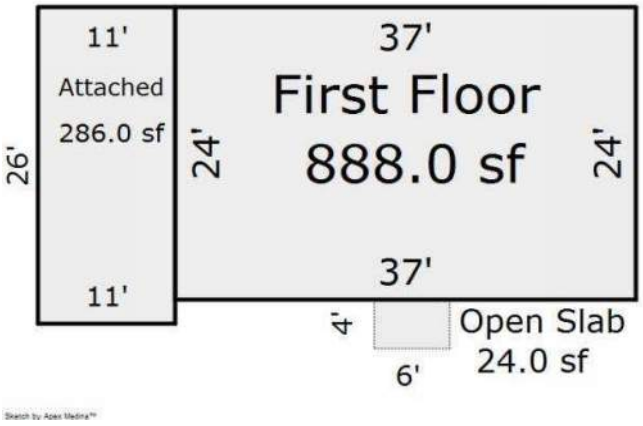
Serial No.
Make
Tag No. — LxW: 0 x 0

Commercial Elements

Stories: N/A — Story Height: 00 — Perimeter: 0
Units: 0 — Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
O-Pat 520 Sf	0	X	500
Attached	0	X	286
Open Slab	0	X	24
Standard	0	X	6
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1
Range Hood Fan	0	X	1



Legal Description

LTS 22 & 23 BLK 1

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Tulsa County Records [OK]

Owner Information

MAHONEY, J MELINDA
.
5115 S 34TH W AVE
TULSA, OK 74107

Property Address

5115 S 34 AV W

Building No. 1

Account Number 051 R01700923300040

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH
Lot: 20 Block: 1
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$65625		$7219
Mobile	$0		$0
Total	$76545		$8420
		Exemptions	$0
School District	T-1A	Net Assessed	$8420
School Levy	$134.51	Estimated Taxes	**$1132.57**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1785	7776	0	0

Description N/A

Miscellaneous Structures

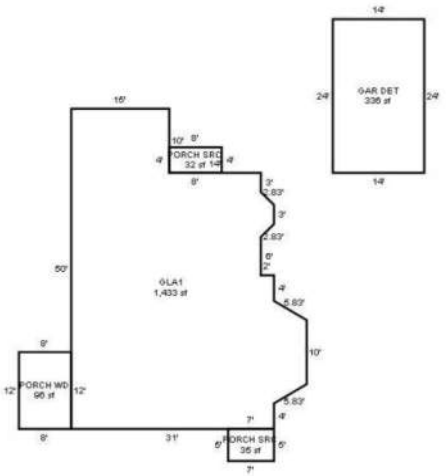
Description	Yrblt	LxW	Units
Detached	0	X	336
Carport 288 Sf Storage 144 Sf	0	X	300
Slab Roof Ceil	0	X	67
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040802	0	00000/00000	0
Grantor: MAHONEY, JOHN E, TRUSTEE			
20040101	55000	07223/00110	38.35
Grantor:			
20010701	71000	06570/01614	49.51
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Detached	Garage SF	336
Porch	Porch: Slab Roof Ceil	Porch SF	67
Basement	N/A	Basement SF	0
Year Built	**1960**	Eff Year Built **1960**	Year Remodeled **0**
Square Footage	**1434**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Legal Description

BEG 16S OF NWC LT 20 TH NELY TO PT ON E L OF LT 21 4.71S OF NEC TH N4.71 TO NEC TH W211 TO NWC TH S69 TO BEGBLK 1

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Tulsa County Records [OK]

Owner Information

WILLIAMSON, BILL T
C/O ORVILLE JR & MARIA WILLS
903 PARKVIEW
GERONIMO, OK 73543

Property Address

5108 S 33 AV W TULSA 000000000

Building No. 1

Account Number 052 R35075923302020

Sub Name: **RICHMOND ACRES**
Lot: **1** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$110300		$12133
Mobile	$0		$0
Total	$217700		$23947
		Exemptions	$0
School District	T-1A	Net Assessed	$23947
School Levy	$134.51	Estimated Taxes	**$3221.11**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.5063	22053	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Fast Food Restaurant
Design Fast Food Restaurant
Quality Fair Plus Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1990** Eff Year Built **1990** Year Remodeled **0**
Square Footage **3000**

Commercial Elements

Stories N/A Story Height 00 Perimeter 244
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	6230
Paving asphalt employee parking	0	X	3000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

ALL LTS 1 2 & 3 LESS TR BEG 22.40S NWC LT 2 TH E15 S15 W15 N15 POB & LESS BEG 3.10S NEC LT 3 TH W45 S22.74 NE47.01 N9 POB & LESS BEG 12S NEC LT 3 TH S41 W34.54 NE TO POB BLK 1

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. 0

Account Number 053 R01700923300050

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH

Lot: Block:

Area Name: TULSA CITY

Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.2929	56320	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

TRI IN NEC LT 15 ALL 16 LESS TRI IN NWC & LTS 17 18 19 PRT LTS 20 & 21 BLK 1

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Tulsa County Records [OK]

Owner Information

TULSA COUNTY
.
500 S DENVER RM 302
TULSA, OK 74103

Property Address

Building No. 0

Account Number 054 R38975923308860

Sub Name: SOUTH HAVEN AMD
Lot: Block:
Area Name: TULSA RURAL
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	1B	Net Assessed	$
School Levy	$111.72	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.5413	67137	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

S70 OF LTS 1 2 3 4 & ALL LTS 5 TO 19 INCL BLK 17

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Tulsa County Records [OK]

Owner Information

TULSA COUNTY
.
500 S DENVER RM 302
TULSA, OK 74103

Property Address

Building No. 0

Account Number: 055 R38975923308820

Sub Name: SOUTH HAVEN AMD
Lot: Block:
Area Name: TULSA RURAL
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	1B	Net Assessed	$
School Levy	$111.72	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.3983	104471	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LTS 1 2 & S70 EA LTS 3 4 5 & ALL LT 6 THRU 31 BLK 2

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Tulsa County Records [OK]

Owner Information

TULSA COUNTY
.
500 S DENVER RM 302
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **056** **R38975923308840**

Sub Name: **SOUTH HAVEN AMD**
Lot: Block:
Area Name: **TULSA RURAL**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	1B	Net Assessed	$
School Levy	$111.72	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0701	3054	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N65 LTS 4 & 5 BLK 2

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Tulsa County Records [OK]

Owner Information

TULSA COUNTY
.
500 S DENVER RM 302
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **057** **R38975923308830**

Sub Name: **SOUTH HAVEN AMD**

Lot: Block:

Area Name: **TULSA RURAL**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	1B	Net Assessed	$
School Levy	$111.72	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0368	1602	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N65 LT 3 BLK 2

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF HIGHWAYS R/W DIV
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **058** **R38975923308845**

Sub Name: **SOUTH HAVEN AMD**
Lot: Block:
Area Name: **TULSA RURAL**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$315		$35
Mobile	$0		$0
Total	$315		$35
		Exemptions	$0
School District	1B	Net Assessed	$35
School Levy	$111.72	Estimated Taxes	**$3.91**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.9721	85905	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT BLKS 16 & 21 & VAC ST & ALLEY BEG NEC LT 4 BLK 16 TH W617.6 S130 E391 S10 W331 S50 ELY131.36 E225 NE47.15 N40 E50 ELY130 NE106.96 POB

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Tulsa County Records [OK]

Owner Information

EWERS, JAMES F III TRUSTEE
JAMES F EWERS III TR
1205 E FARGO ST
BROKEN ARROW, OK 74012

Property Address

SAPULPA 000000000

Building No. 1

Account Number 059 R38975923308850

Sub Name: **SOUTH HAVEN AMD**
Lot: **33** Block: **21**
Area Name: **TULSA RURAL**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$85000		$9350
Mobile	$0		$0
Total	$86000		$9460
		Exemptions	$0
School District	1B	Net Assessed	$9460
School Levy	$111.72	Estimated Taxes	**$1056.87**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070207	85000	00000/00000	85000
Grantor: ANDERSON, LLOYD A			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.6412	27932	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Miscellaneous Imps CM *CODE
Design Miscellaneous-Comm OB
Quality Fair Interior Finish N/A
Condition Fair
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **2010** Eff Year Built **2010** Year Remodeled **0**
Square Footage **1**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport - CM Open Metal	0	X	400
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 1 2 31 32 ALL LTS 33 34 BLK 21 & PRT LTS 5 6 7 & ALL LT 8 BLK 16 & VAC ST & ALLEYS BEG SWC LT 31 TH N90 E25 NE47.07 N40 E50 EL LT 1 NE130.37 WL RR R/W SW220 W103.25 POB & N25 V

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 060 R38975923302358

Sub Name: **SOUTH HAVEN AMD**

Lot: Block:

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$54		$6
Mobile	$0		$0
Total	$54		$6
		Exemptions	$0
School District	T-1A	Net Assessed	$6
School Levy	$134.51	Estimated Taxes	**$0.81**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.3326	14489	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19700430	0	03926/01521	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

E10 N50 LT 1 & PRT LTS 6 THRU 17 BEG NWC LT 17 TH S50 NE306.33 W325 POB BLK 3 & PRT LTS 1 2 & 3 BEG NWC LT 3 TH SW80 ELY122.22 N55 W78.8 POB BLK 16

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Tulsa County Records [OK]

Owner Information

CLARK CHILDREN TRUSTS

.

3007 NW 63 ST STE 205

OKLAHOMA CITY, OK 73116

Property Address

3810 W SKELLY DR S TULSA 000000000

Building No. 1

061

Account Number R38975923304530

Sub Name: **SOUTH HAVEN AMD**

Lot: **9** Block: **16**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$161600		$17776
Mobile	$0		$0
Total	$317700		$34947
		Exemptions	$0
School District	T-1A	Net Assessed	$34947
School Levy	$134.51	Estimated Taxes	**$4700.72**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100929	360000	0/0	47.87
Grantor: ANDERSON, LLOYD			
19960909	0	05843/01342	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.4409	106327	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type	Commercial		
Style	Storage Warehouse		
Design	Storage Warehouse		
Quality	Fair	Interior Finish	N/A
Condition	Fair		
Roof	Gable		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Package Unit	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1997**	Eff Year Built **1997**	Year Remodeled **0**
Square Footage	**7520**		

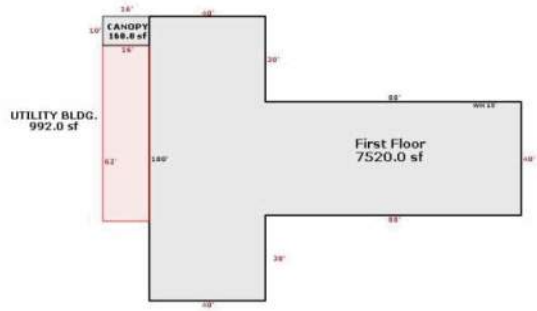
Commercial Elements

Stories	N/A	Story Height	00	Perimeter	456
Units	1	Rent	000		
Class Description	Metal Frame				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Utility Shed Wood Avg	0	X	992
Canopies- stores, comm Steel Avg	0	X	160
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

38975-92-33-04530



Legal Description

PRT LTS 1 2 3 & ALL LTS 9 THRU 16 BLK 16 BEG SECR LT 1 TH N75 WLY122.22 WL LT 3 SW75.5 SWC LT 3 SW TO SWC LT 9 E256 N140 POB & ALL VAC 52ND ST BTW BLKS 15 & 16 & LTS 1 THRU 12 & N

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Tulsa County Records [OK]

Owner Information

CALVERT, DANIEL E & OLETA CO-TRUSTEES
DANIEL E & OLETA CALVERT REV TRUST
9305 S 43RD WEST AVE
TULSA, OK 74132

Property Address

3705 W SKELLY DR S TULSA 741070000

Building No. 1

062

Account Number R38975923302350

Sub Name: **SOUTH HAVEN AMD**

Lot: Block:

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$46600		$5126
Mobile	$0		$0
Total	$325000		$35750
		Exemptions	$0
School District	T-1A	Net Assessed	$35750
School Levy	$134.51	Estimated Taxes	**$4808.73**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19710203	0	03955/00852	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.0704	46625	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Fair Plus Interior Finish N/A
Condition Fair +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Floor Wall Furnace Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1986** Eff Year Built **1986** Year Remodeled **0**
Square Footage **16000**

Commercial Elements

Stories N/A Story Height 00 Perimeter 560
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	8000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

38975-92-33-02350
BLDG. #1

Sketch by Apex Medina™

Legal Description

LTS 1 THRU 17 LESS E10 N50 LT 1 & LESS BEG NWC LT 17 TH S50 NE306.33 W325 POB BLK 3

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Tulsa County Records [OK]

Owner Information

TARIAH, SOLOMON B
.
3723 W 52ND ST
TULSA, OK 741078911

Property Address

Building No. 0

Account Number 063 R38975923302360

Sub Name: SOUTH HAVEN AMD
Lot: 18 Block: 3
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2000		$220
Mobile	$0		$0
Total	$2000		$220
		Exemptions	$0
School District	T-1A	Net Assessed	$220
School Levy	$134.51	Estimated Taxes	**$29.59**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19920117	0	05479/05000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.0746	3250	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LOT 18 BLK 3

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Tulsa County Records [OK]

Owner Information

TARIAH, SOLOMON B
.
3723 W 52ND ST
TULSA, OK 741078911

Property Address

3727 W 52 ST S

Building No. 1

Account Number 064 R38975923302370

Sub Name: **SOUTH HAVEN AMD**
Lot: **19** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2900		$319
Mobile	$0		$0
Total	$17600		$1936
		Exemptions	$0
School District	T-1A	Net Assessed	$1936
School Levy	$134.51	Estimated Taxes	**$260.41**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19920117	0	05479/00500	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1492	6500	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

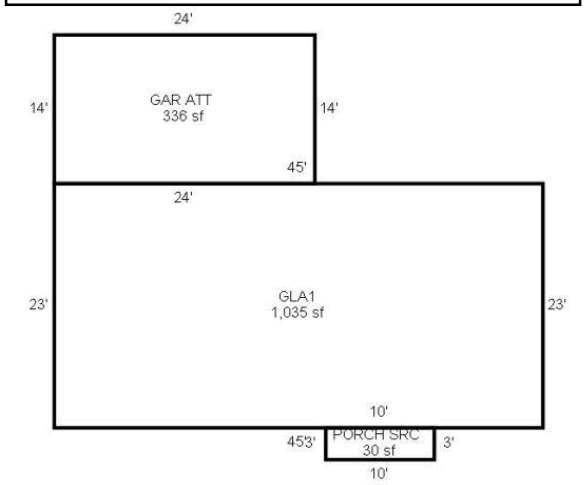
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Low Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 336
Porch Porch: Slab Roof Ceil Porch SF 30
Basement N/A Basement SF 0
Year Built **1930** Eff Year Built **1930** Year Remodeled **0**
Square Footage **1035**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	336
Stg 80 Sf	0	X	50
Slab Roof Ceil	0	X	30
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOTS 19 & 20 BLK 3

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Tulsa County Records [OK]

Owner Information

TARIAH, SOLOMON B
.
3723 W 52ND ST
TULSA, OK 741078911

Property Address

3723 W 52 ST S

Building No. 1

Account Number 065 R38975923302380

Sub Name: **SOUTH HAVEN AMD**
Lot: **21** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2328		$107
Mobile	$0		$0
Total	$15573		$1713
		Exemptions	$1000
School District	T-1A	Net Assessed	$713
School Levy	$134.51	Estimated Taxes	**$95.91**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19920117	0	05479/00500	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1492	6500	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

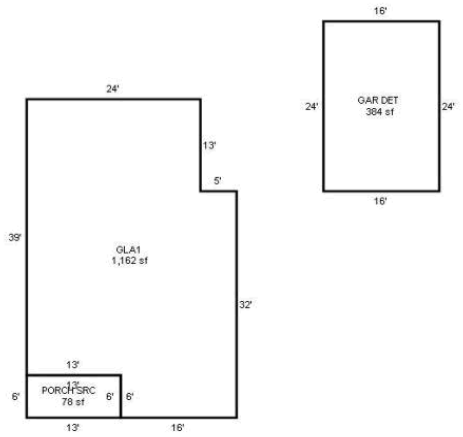
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Low	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Detached		Garage SF 384
Porch	Porch: Slab Roof Ceil		Porch SF 78
Basement	N/A		Basement SF 0
Year Built	**1930**	Eff Year Built **1930**	Year Remodeled **0**
Square Footage	**1162**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	384
Slab Roof Ceil	0	X	78
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOTS 21 & 22 BLK 3

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Tulsa County Records [OK]

Owner Information

POLITE, VERDA MAE
.
3725 W 52ND ST
TULSA, OK 741078911

Property Address

3725 W 52 ST S TULSA 741070000

Building No. 1

Account Number 066 R38975923302390

Sub Name: **SOUTH HAVEN AMD**
Lot: **23** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2900		$190
Mobile	$0		$0
Total	$22500		$2475
		Exemptions	$1000
School District	T-1A	Net Assessed	$1475
School Levy	$134.51	Estimated Taxes	**$198.4**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19960620	0	05820/00098	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Low Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 84
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **1024**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1492	6500	0	0

Description N/A

Mobile Home Information

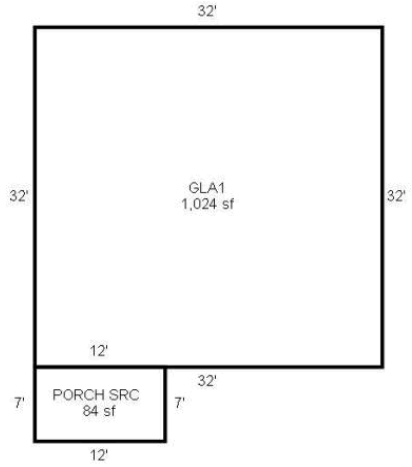
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	84
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT 23 24 BLK 3

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Tulsa County Records [OK]

Owner Information

TARIAH, SOLOMON B AND YEVETTE M
.
3723 W 52ND ST
TULSA, OK 74107

Property Address

3719 W 52 ST S

Building No. 1

Account Number 067 R38975923302400

Sub Name: **SOUTH HAVEN AMD**

Lot: **25** Block: **3**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2900		$319
Mobile	$0		$0
Total	$13200		$1452
		Exemptions	$0
School District	T-1A	Net Assessed	$1452
School Levy	$134.51	Estimated Taxes	**$195.31**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19931109	0	05560/01260	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1492	6500	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

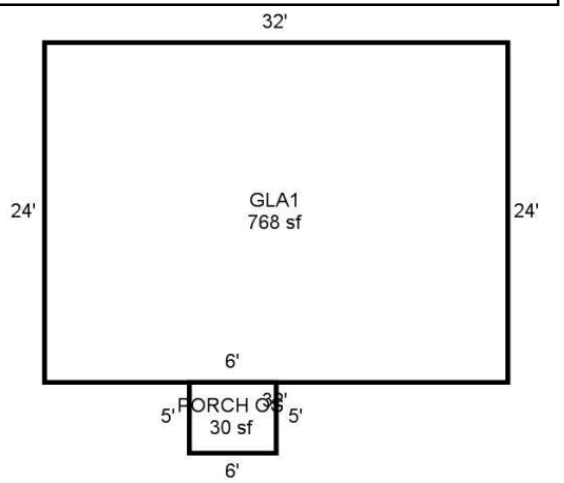
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Low	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1955**	Eff Year Built **1955**	Year Remodeled **0**
Square Footage	**768**		

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 25 & 26 BLK 3

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Tulsa County Records [OK]

Owner Information

BELL, GARFIELD AND ROSCOE JONES
.
5140 S 37TH WEST AVE
TULSA, OK 741078938

Property Address

3713 W 52 ST S

Building No. 0

Account Number 068 R38975923302420

Sub Name: SOUTH HAVEN AMD
Lot: 27 Block: 3
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2900		$319
Mobile	$0		$0
Total	$2900		$319
		Exemptions	$0
School District	T-1A	Net Assessed	$319
School Levy	$134.51	Estimated Taxes	**$42.91**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1492	6500	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20041118	0	00000/00000	0

Grantor: BELL, CHRISTINE

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LTS 27 & 28 BLK 3

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Tulsa County Records [OK]

Owner Information

BELL, GARFIELD AND ROSCOE JONES
.
5140 S 37TH W AVE
TULSA, OK 74145

Property Address

5140 S 37 AV W

Building No. 1

Account Number 069 R38975923302430

Sub Name: **SOUTH HAVEN AMD**
Lot: **30** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$5607		$62
Mobile	$0		$0
Total	$20200		$2222
		Exemptions	$2000
School District	T-1A	Net Assessed	$222
School Levy	$134.51	Estimated Taxes	**$29.86**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4477	19500	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

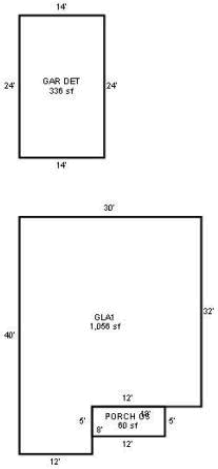
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Low Plus Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 336
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1930** Eff Year Built **1930** Year Remodeled **0**
Square Footage **1056**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 440 Sf Cov Patio 280 Sf	0	X	850
Detached	0	X	336
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT 29 TO 34 INC BLK 3

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Tulsa County Records [OK]

Owner Information

GILLIAM, EARL R AND LINDA J
.
2339 S 61ST WEST AVE
TULSA, OK 74107

Property Address

3618 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 070 R35075923302310

Sub Name: **RICHMOND ACRES**
Lot: **7** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$58400		$6424
Mobile	$0		$0
Total	$95000		$10450
		Exemptions	$0
School District	T-1A	Net Assessed	$10450
School Levy	$134.51	Estimated Taxes	**$1405.63**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070222	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.4797	20896	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1985** Eff Year Built **1985** Year Remodeled **0**
Square Footage **2088**

Commercial Elements

Stories N/A Story Height 00 Perimeter 266
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	2300
Utility Shed Metal Avg	0	X	1080
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
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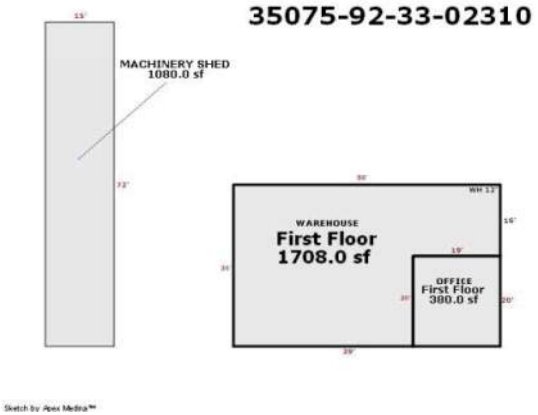
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W166 LT 7 LESS W10 N50 THEREOF FOR HWY BLK 4

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Tulsa County Records [OK]

Owner Information

BRANTLEY PROPERTIES LLC
.
PO BOX 624
JENKS, OK 74037

Property Address

5144 S 36 AV W TULSA 000000000

Building No. 1

Account Number 071 R35075923302300

Sub Name: **RICHMOND ACRES**
Lot: **7** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$46725		$5140
Mobile	$0		$0
Total	$57225		$6295
		Exemptions	$0
School District	T-1A	Net Assessed	$6295
School Levy	$134.51	Estimated Taxes	**$846.74**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140115	0	0/0	0
Grantor: BRANTLEY, RACHEL & MATTHEW			
20131018	54500	0/0	58.48
Grantor: KUHLENSCHMIDT, KRISTINA D			
20110831	52000	0/0	55.79
Grantor: MEIER, BRIAN S AND SHANNON J			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average — Interior Finish Drywall
Condition Good
Roof Gable/Hip — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat None — Air N/A
Beds 0 — Baths 1 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 86
Basement N/A — Basement SF 0
Year Built **1949** — Eff Year Built **1949** — Year Remodeled **0**
Square Footage **932**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1627	7089	0	0

Description N/A

Mobile Home Information

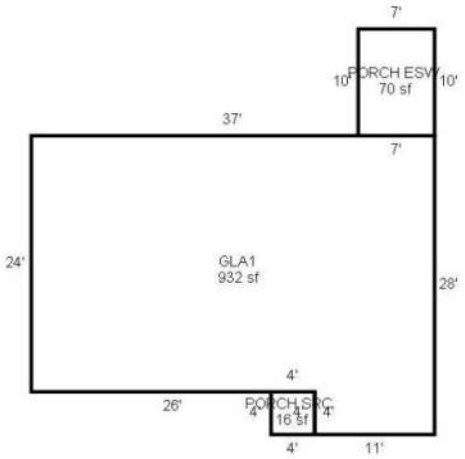
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Storage 132 Sf	0	X	200
Encl Solid Wall	0	X	70
Slab Roof Ceil	0	X	16
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

N51 E139 LT 7 BLK 4

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Tulsa County Records [OK]

Owner Information

ASPEN LAND & EXPLORATION COMPANY
.
PO BOX 4335
TULSA, OK 741590335

Property Address

5150 S 36 AV W

Building No. 1

Account Number R35075923302290 (072)

Sub Name: **RICHMOND ACRES**
Lot: **7** Block: **4**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11550		$1271
Mobile	$0		$0
Total	$31605		$3477
		Exemptions	$0
School District	T-1A	Net Assessed	$3477
School Levy	$134.51	Estimated Taxes	**$467.69**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100101	0	0/0	0
Grantor: RAPID CREEK RESOURCES INC			
20100101	0	0/0	0
Grantor: RAPID CREEK RESOURCES CO			
19960401	11500	05801/00546	10.79
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2457	10703	0	0

Description: N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

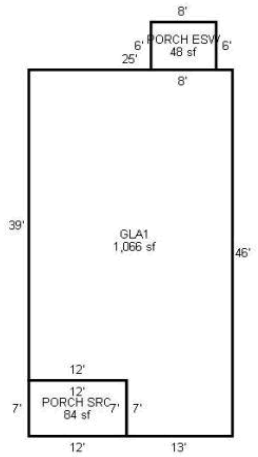
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Fair +		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Masonry Veneer		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 132
Basement	N/A		Basement SF 0
Year Built	**1930**	Eff Year Built **1930**	Year Remodeled **0**
Square Footage	**1066**		

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 200 Sf	0	X	300
Slab Roof Ceil	0	X	84
Encl Solid Wall	0	X	48
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S/76 E139 LT 7 AKA TRACT D BLK 4

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Tulsa County Records [OK]

Owner Information

DENNEY, DAN P

.

4620 S TACOMA AVE

TULSA, OK 741078030

Property Address

5206 S 36 AV W

Building No. 1

Account Number 073 R54175923309620

Sub Name: **SOUTHWEST GARDENS**

Lot: **1** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$21000		$2310
Mobile	$0		$0
Total	$30000		$3300
		Exemptions	$0
School District	T-1A	Net Assessed	$3300
School Levy	$134.51	Estimated Taxes	**$443.88**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130129	30000	0/0	36.06
Grantor:	EVENS, CHARLES C AND ROXANNE M		
Sale Date	Sale Price	Book/Page	$/SF
19901001	38000	05281/02567	45.67
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	Drywall
Condition	Avg +		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Detached		Garage SF 360
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1947**	Eff Year Built **1947**	Year Remodeled **0**
Square Footage	**832**		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4735	20625	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

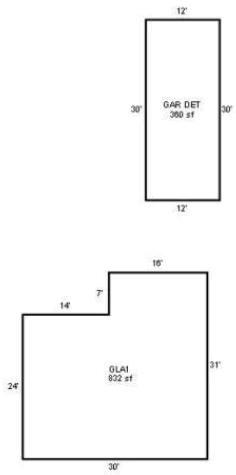
Stories N/A Story Height 00 Perimeter 0

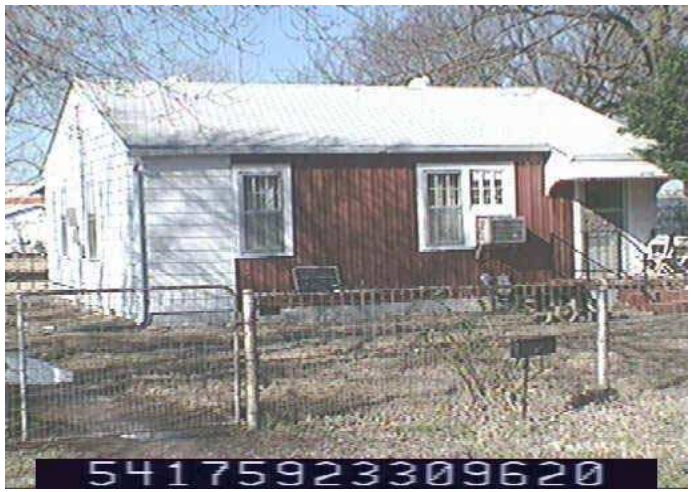
Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	360
Mtl C Pat 98 Sf	0	X	100
Standard	0	X	3
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
N/A	0		0
N/A	0		0





Legal Description

LT 1 BLK 2

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Tulsa County Records [OK]

Owner Information

BOYLE, GUY I AND CYNTHIA L
.
3754 E 48TH ST
TULSA, OK 74135

Property Address

5212 S 36 AV W

Building No. 1

Account Number 074 R54175923309630

Sub Name: SOUTHWEST GARDENS
Lot: 2 Block: 2
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$25717		$2829
Mobile	$0		$0
Total	$33644		$3701
		Exemptions	$0
School District	T-1A	Net Assessed	$3701
School Levy	$134.51	Estimated Taxes	**$497.82**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4735	20625	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20011201	17000	06669/02096	16.67
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

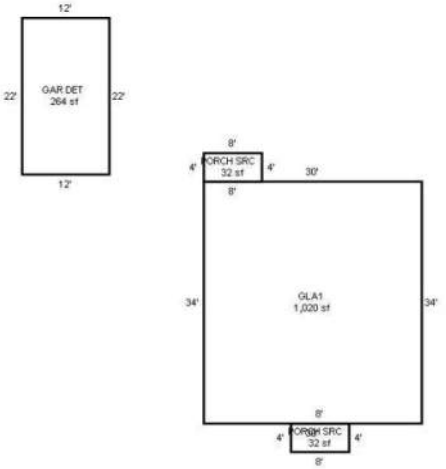
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 64
Basement N/A Basement SF 0
Year Built **1948** Eff Year Built **1948** Year Remodeled **0**
Square Footage **1020**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	264
Stg 96 Sf	0	X	100
Slab Roof Ceil	0	X	64
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

REESE, JAMES M AND REBECCA R
.
2625 W FT WORTH PL
BROKEN ARROW, OK 74012

Property Address

5139 S 36 AV W

Building No. 1

Account Number 075 R35075923302180

Sub Name: **RICHMOND ACRES**
Lot: **5** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$81690		$8986
Mobile	$0		$0
Total	$94500		$10395
		Exemptions	$0
School District	T-1A	Net Assessed	$10395
School Levy	$134.51	Estimated Taxes	**$1398.23**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070701	90000	00000/00000	118.42
Grantor: GIRDNER, M E			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4862	21180	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

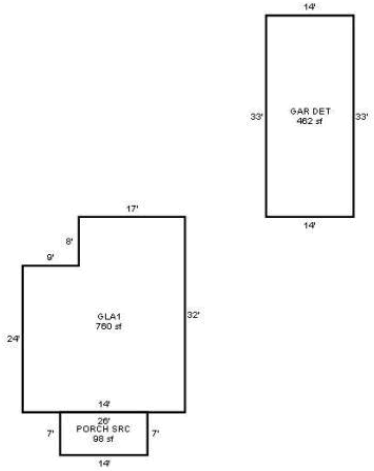
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 462
Porch Porch: Slab Roof Ceil Porch SF 98
Basement N/A Basement SF 0
Year Built **1929** Eff Year Built **1929** Year Remodeled **0**
Square Footage **760**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	462
Open Prch 98 Enc Prch 40 Stg 154	0	X	450
Slab Roof Ceil	0	X	98
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S 76 LT 5 LESS BG 55.92 N SW COR N 20 TO HWY E 200 SW 200.93 BG BLK 3

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Tulsa County Records [OK]

Owner Information

FITCH, STEPHANIE

.

5149 S 36TH WEST AVE

TULSA, OK 74107

Property Address

5149 S 36 AV W TULSA 741070000

Building No. 1

Account Number 076 R35075923302190

Sub Name: **RICHMOND ACRES**

Lot: **6** Block: **3**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$34900		$3839
Mobile	$0		$0
Total	$24000		$2640
		Exemptions	$0
School District	T-1A	Net Assessed	$2640
School Levy	$134.51	Estimated Taxes	**$355.11**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150630	24000	0/0	27.09
Grantor: GRAF, JOHN H AND DEANNA D			
19990101	0	06168/01795	0
Grantor:			
19940301	41000	05602/02094	46.28
Grantor:			

Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Avg		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 62
Basement	N/A		Basement SF 0
Year Built	**1930**	Eff Year Built **1930**	Year Remodeled **0**
Square Footage	**886**		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.8892	38735	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

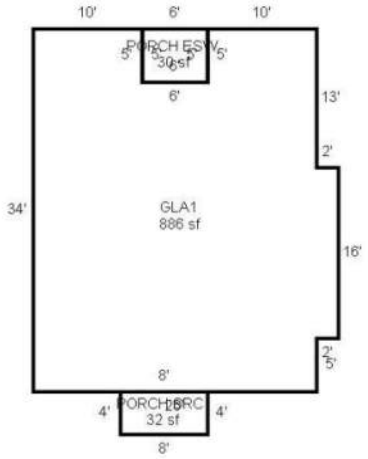
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Stg 792 Sf	0	X	1300
Slab Roof Ceil	0	X	32
Encl Solid Wall	0	X	30
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 6 BLK 3

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Tulsa County Records [OK]

Owner Information

MARTIN, C G COMPANY INC
.
PO BOX 9345
TULSA, OK 741570345

Property Address

5205 S 36 AV W

Building No. 1

Account Number 077 R54175923309540

Sub Name: **SOUTHWEST GARDENS**
Lot: **1** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$38000		$4180
Mobile	$0		$0
Total	$47100		$5181
		Exemptions	$0
School District	T-1A	Net Assessed	$5181
School Levy	$134.51	Estimated Taxes	**$696.9**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19960501	35000	05813/00949	42.89
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5234	22800	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

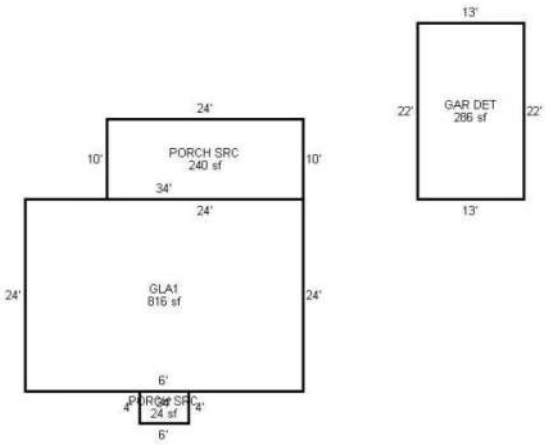
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 286
Porch N/A Porch SF 264
Basement N/A Basement SF 0
Year Built **1948** Eff Year Built **1948** Year Remodeled **0**
Square Footage **816**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	286
Slab Roof Ceil	0	X	240
Slab Roof Ceil	0	X	24
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

MARTIN, MAXINE L TRUSTEE
MAXINE L MARTIN TRUST
C/O CG MARTIN CO INC PO BOX 9345
TULSA, OK 741573045

Property Address

5211 S 36 AV W TULSA 741078908

Building No. 1

Account Number: 078 R54175923309550

Sub Name: SOUTHWEST GARDENS
Lot: 2 Block: 1
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$51700		$4837
Mobile	$0		$0
Total	$60800		$6688
		Exemptions	$1000
School District	T-1A	Net Assessed	$5688
School Levy	$134.51	Estimated Taxes	$765.09

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19930730	0	05528/01064	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5234	22800	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

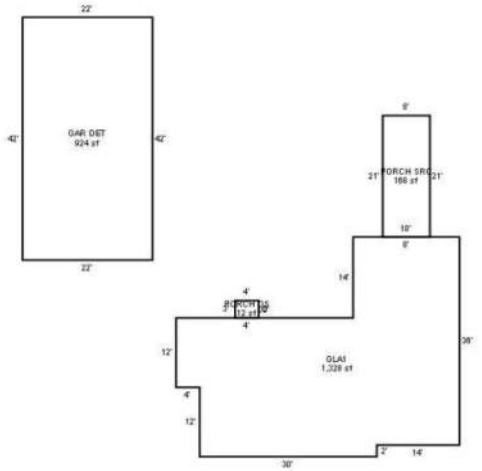
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 924
Porch Porch: Slab Roof Ceil Porch SF 168
Basement N/A Basement SF 0
Year Built **1948** Eff Year Built **1948** Year Remodeled **0**
Square Footage **1328**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	924
Met Cov Porch 292 Sf	0	X	800
Slab Roof Ceil	0	X	168
Standard	0	X	3
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 2 BLK 1

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Tulsa County Records [OK]

Owner Information

K & JR LLC

.

10305 S 76TH EAST AVE

TULSA, OK 741336828

Property Address

3418 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 079 R01700923300150

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**

Lot: **10** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11655		$1282
Mobile	$0		$0
Total	$236250		$25987
		Exemptions	$0
School District	T-1A	Net Assessed	$25987
School Levy	$134.51	Estimated Taxes	**$3495.51**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111206	0	0/0	0
Grantor: RUSSELL, KENNEY & JANE F			
19970926	0	05961/01594	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2686	11700	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

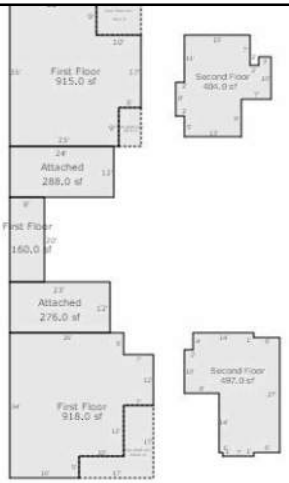
Type	Residential		
Style	Single Family Residential *CODE		
Design	1½ Story Fin		
Quality	Average	Interior Finish	Drywall
Condition	Avg		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 4	Total Rooms 0
Garage	N/A		Garage SF 564
Porch	N/A		Porch SF 304
Basement	N/A		Basement SF 0
Year Built	**2010**	Eff Year Built **2010**	Year Remodeled **0**
Square Footage	**2894**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1993
Attached	0	X	288
Attached	0	X	276
Slab Roof Ceil	0	X	169
Slab Roof Ceil	0	X	90
Slab Roof Ceil	0	X	45
Standard	0	X	20
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0



Sketch by Apex Medina™

Legal Description

S36 W60 LT 10 & W60 LTS 11 12 & 13 BLK 2

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BRAMLETT, DOROTHY
C/O KENNY RUSSELL
10305 S 76TH EAST AVE
TULSA, OK 741336828

Property Address

5140 S 34 AV W TULSA 000000000

Building No. 1

Account Number 080 R01700923300160

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**
Lot: **11** Block: **2**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11845		$1194
Mobile	$0		$0
Total	$108356		$11919
		Exemptions	$1000
School District	T-1A	Net Assessed	$10919
School Levy	$134.51	Estimated Taxes	**$1468.71**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111206	0	0/0	0
Grantor: RUSSELL, KENNEY & JANE F			
20090828	0	0/0	0
Grantor: RUSSELL, KENNY AND JANE F			
19970926	0	05961/01594	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3351	14596	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

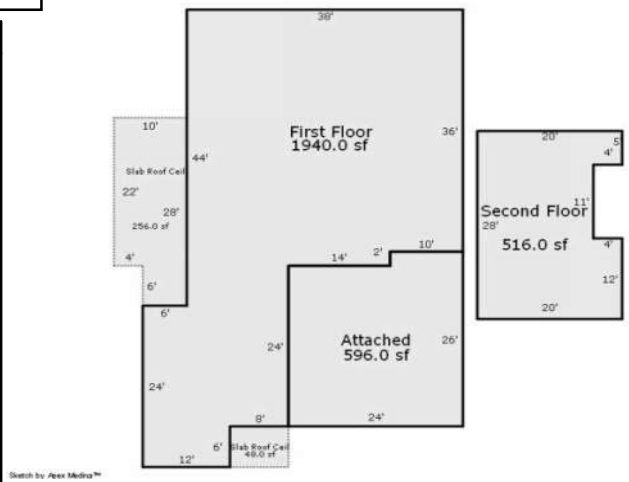
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Avg
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 596
Porch N/A Porch SF 304
Basement N/A Basement SF 0
Year Built **1953** Eff Year Built **2004** Year Remodeled **2010**
Square Footage **2456**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	596
Slab Roof Ceil	0	X	256
Slab Roof Ceil	0	X	48
Standard	0	X	8
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Fireplace Average 1 Story	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0



Legal Description

E164 S36 LT 10 & E164 LT 11 BLK 2

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

K & JR LLC

.

10305 S 76TH EAST AVE

TULSA, OK 741336828

Property Address

5144 S 34 AV W TULSA 000000000

Building No. 1

Account Number 081 R01700923300170

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**

Lot: **12** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$146160		$16078
Mobile	$0		$0
Total	$157500		$17325
		Exemptions	$0
School District	T-1A	Net Assessed	$17325
School Levy	$134.51	Estimated Taxes	**$2330.39**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111206	0	0/0	0
Grantor: RUSSELL, KENNEY & JANE F			
19970926	0	05961/01594	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1995	8692	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

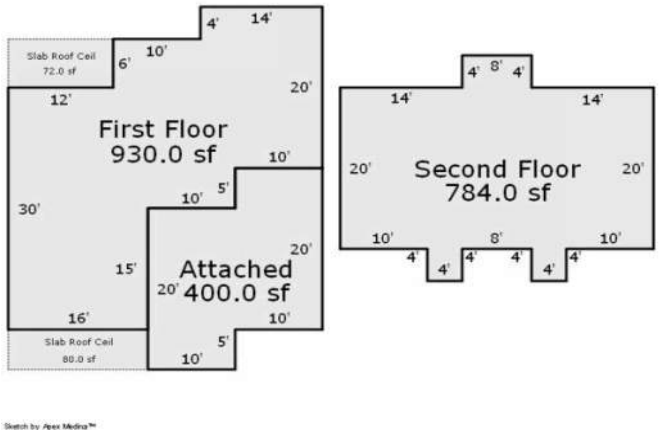
Type	Residential		
Style	Single Family Residential *CODE		
Design	1½ Story Fin		
Quality	Average	Interior Finish	Drywall
Condition	Avg		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 2.1	Total Rooms 0
Garage	Garage: Attached		Garage SF 400
Porch	N/A		Porch SF 152
Basement	N/A		Basement SF 0
Year Built	**2009**	Eff Year Built **2009**	Year Remodeled **0**
Square Footage	**1714**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	930
Attached	0	X	400
Slab Roof Ceil	0	X	80
Slab Roof Ceil	0	X	72
Laundry Facility	0	X	13
Allowance	0	X	1
Fireplace Average 1 Story	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E164 LT 12 BLK 2

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

K & JR LLC

.

10305 S 76TH EAST AVE

TULSA, OK 741336828

Property Address

5148 S 34 AV W

Building No. 1

Account Number 082 R01700923300180

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**

Lot: **13** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11340		$1247
Mobile	$0		$0
Total	$131250		$14437
		Exemptions	$0
School District	T-1A	Net Assessed	$14437
School Levy	$134.51	Estimated Taxes	**$1941.92**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111206	0	0/0	0

Grantor: RUSSELL, KENNEY & JANE F

Sale Date	Sale Price	Book/Page	$/SF
19970926	0	05961/01594	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Average Interior Finish Drywall

Condition Avg

Roof Gable/Hip Composition Shingle

Exterior Wall Frame Brick Veneer N/A

Foundation Slab Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 2 Total Rooms 0

Garage Garage: Attached Garage SF 440

Porch N/A Porch SF 171

Basement N/A Basement SF 0

Year Built **2008** Eff Year Built **2008** Year Remodeled **0**

Square Footage **1317**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1995	8692	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

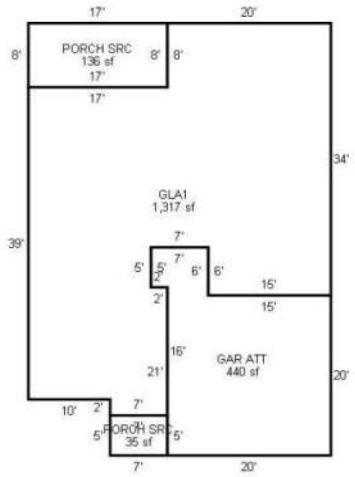
Stories N/A Story Height 00 Perimeter 0000

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1317
Attached	0	X	440
Slab Roof Ceil	0	X	136
Slab Roof Ceil	0	X	35
Standard	0	X	10
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E164 LT 13 BLK 2

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BRADY, PATRICK B
.
5154 S 34TH WEST AVE
TULSA, OK 74107

Property Address

5154 S 34 AV W TULSA 000000000

Building No. 1

Account Number 083 R44125923305735

Sub Name: **VALLEY HOMES ADDN**
Lot: **1** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$58905		$6480
Mobile	$0		$0
Total	$70875		$7797
		Exemptions	$0
School District	T-1A	Net Assessed	$7797
School Levy	$134.51	Estimated Taxes	**$1048.77**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110608	67500	0/0	60.48
Grantor: PATTON, ERIC R AND ANNA M HARRISON			
19990401	59000	06206/00008	52.87
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus — Interior Finish Drywall
Condition Avg
Roof Gable/Hip — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat Cool Air in Heat Ducts — Air N/A
Beds 0 — Baths 1 — Total Rooms 0
Garage Garage: Attached — Garage SF 300
Porch Porch: Slab Roof Ceil — Porch SF 24
Basement N/A — Basement SF 0
Year Built **1960** — Eff Year Built **1960** — Year Remodeled **0**
Square Footage **1116**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3137	13664	0	0

Description N/A

Mobile Home Information

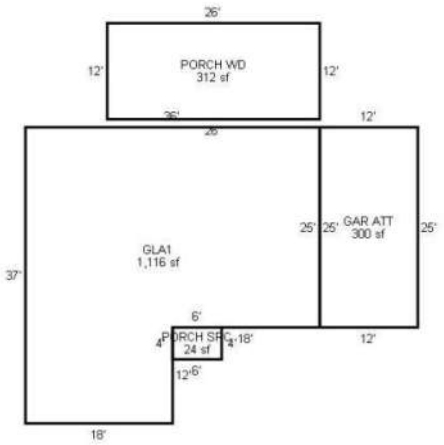
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	300
Slab Roof Ceil	0	X	24
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Fireplace Average 1 Story	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 1 BLK 3

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

ROBERTS, ERNIE L & WILMA J
.
9900 W 81ST
TULSA, OK 74131

Property Address

5158 S 34 AV W

Building No. 1

Account Number 084 R44125923305745

Sub Name: **VALLEY HOMES ADDN**
Lot: **2** Block: **3**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11970		$1317
Mobile	$0		$0
Total	$65100		$7161
		Exemptions	$0
School District	T-1A	Net Assessed	$7161
School Levy	$134.51	Estimated Taxes	**$963.23**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120203	0	0/0	0
Grantor: FHLMC			
20110927	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20080101	62000	00000/00000	46.69
Grantor: NAVEJAR, GLORIA KAY			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3137	13664	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

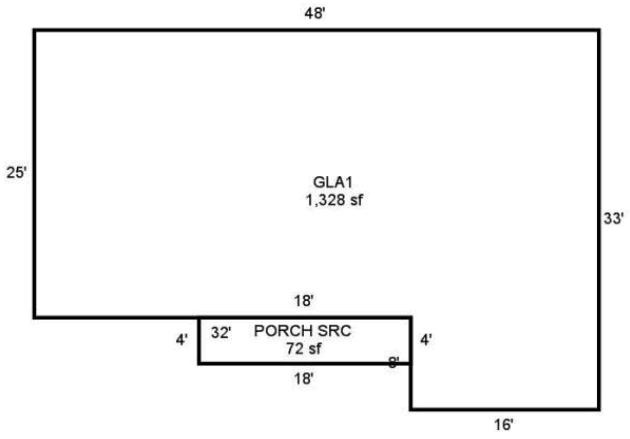
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 72
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1328**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	72
Standard	0	X	5
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
N/A	0		0
N/A	0		0



Legal Description

LT 2 BLK 3

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

ROBERTS, LARRY
.
5141 S 34 WEST AVE
TULSA, OK 74107

Property Address

5141 S 34 AV W TULSA 741070000

Building No. 1

Account Number 085 R01700923300030

Sub Name: ANDERSONS RESUB PRT B1 & ALL B2 RICH
Lot: 15 Block: 1
Area Name: TULSA CITY
Section 33 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$45011		$4156
Mobile	$0		$0
Total	$56650		$6231
		Exemptions	$1000
School District	T-1A	Net Assessed	$5231
School Levy	$134.51	Estimated Taxes	$703.62

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100426	55000	0/0	67.4
Grantor: P2 EQUITY INC			
20100326	35000	0/0	42.89
Grantor: CAMPBELL, SHARRON L			
20050517	0	00000/00000	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 240
Porch Porch: Open Slab Porch SF 84
Basement N/A Basement SF 0
Year Built 1950 Eff Year Built 1950 Year Remodeled 0
Square Footage 816

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2975	12960	0	0

Description N/A

Mobile Home Information

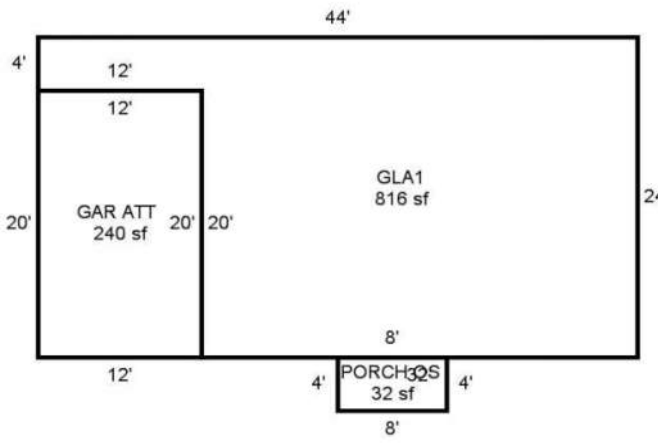
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	240
Open Slab	0	X	84
Standard	0	X	5
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG SWC LT 15 TH N ON W L LTS 15 & 16 81 SE TO E L LT 15 28.98 N SEC S TO SEC W211 TO BEG PTS LTS 15 16 BLK 1

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CLARK, JASON RAE
.
5145 S 34TH WEST AVE
TULSA, OK 74107

Property Address

5145 S 34 AV W TULSA 000000000

Building No. 1

Account Number 086 R01700923300020

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**
Lot: **14** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$11655	$1282
Mobile	$0	$0
Total	$60900	$6699
	Exemptions	$0
School District	T-1A	Net Assessed $6699
School Levy	$134.51	Estimated Taxes **$901.08**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090526	58000	0/0	73.23
Grantor: MCCLENDON, MICHAEL R			
20060101	55000	00000/00000	69.44
Grantor: YEATS, MICHAEL G			
19861001	30000	04976/02931	37.88
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair — Interior Finish Drywall
Condition Good +
Roof Gable/Hip — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat None — Air N/A
Beds 0 — Baths 1 — Total Rooms 0
Garage Garage: Attached — Garage SF 240
Porch N/A — Porch SF 0
Basement N/A — Basement SF 0
Year Built **1950** — Eff Year Built **1950** — Year Remodeled **0**
Square Footage **792**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2567	11183	0	0

Description N/A

Mobile Home Information

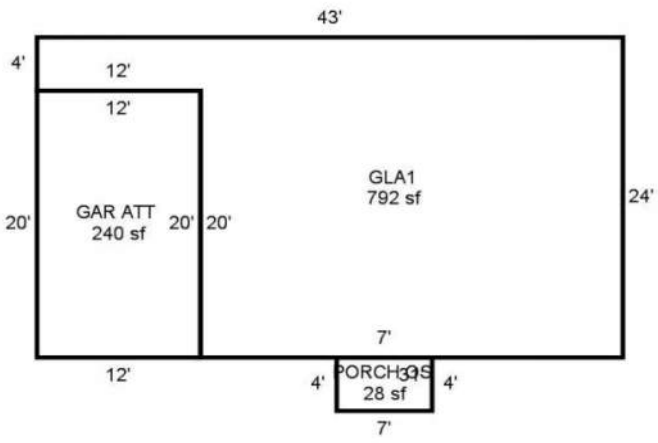
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	240
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 14 BLK 1

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCDONALD, IRENE
.
5149 S 34TH W AVE
TULSA, OK 741078905

Property Address

5149 S 34 AV W

Building No. 1

Account Number 087 R01700923300010

Sub Name: **ANDERSONS RESUB PRT B1 & ALL B2 RICH**

Lot: **13** Block: **1**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$11655	$1282
Mobile	$0	$0
Total	$29820	$3280
	Exemptions	$0
School District T-1A	Net Assessed	$3280
School Levy $134.51	Estimated Taxes	**$441.19**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2567	11183	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

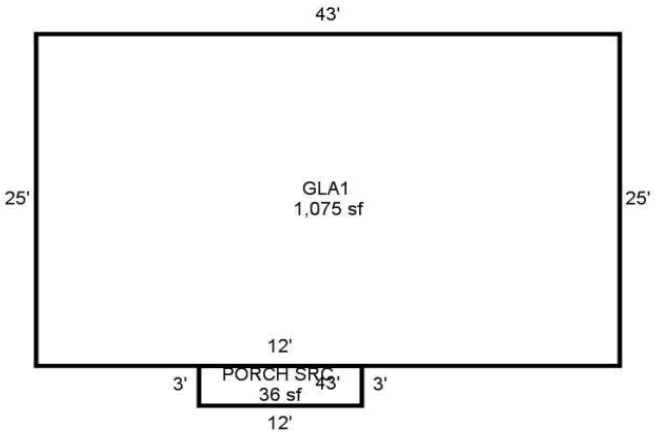
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 36
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1075**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Stg 286 Sf Chicken Coop 96 Sf	0	X	600
Patio 395 Sf	0	X	300
Slab Roof Ceil	0	X	36
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 13 BLK 1

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

SHAHIN, WALTER & CAROL
.
5153 S 34TH W AVE
TULSA, OK 74107

Property Address

5153 S 34 AV W

Building No. 1

088

Account Number R44125923305605

Sub Name: **VALLEY HOMES ADDN**

Lot: **1** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$46350		$4295
Mobile	$0		$0
Total	$57680		$6345
		Exemptions	$1000
School District	T-1A	Net Assessed	$5345
School Levy	$134.51	Estimated Taxes	**$718.96**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111108	0	0/0	0

Grantor: SHAHIN, WALTER

Sale Date	Sale Price	Book/Page	$/SF
20100104	0	0/0	0

Grantor: SHAHIN, WALTER AND CAROL

Sale Date	Sale Price	Book/Page	$/SF
20021205	0	06884/01092	0

Grantor:

Building Elements

Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair Plus — Interior Finish: Drywall
Condition: Avg +
Roof: Hip/Gable — Composition Shingle
Exterior Wall: FrameSiding/MasonryVeneer — N/A
Foundation: Crawl Space — Fireplace: N/A
Heat: Cool Air in Heat Ducts — Air: N/A
Beds: 0 — Baths: 1 — Total Rooms: 0
Garage: N/A — Garage SF: 0
Porch: N/A — Porch SF: 252
Basement: N/A — Basement SF: 0
Year Built: **1960** — Eff Year Built: **1960** — Year Remodeled: **0**
Square Footage: **1418**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2353	10248	0	0

Description: N/A

Mobile Home Information

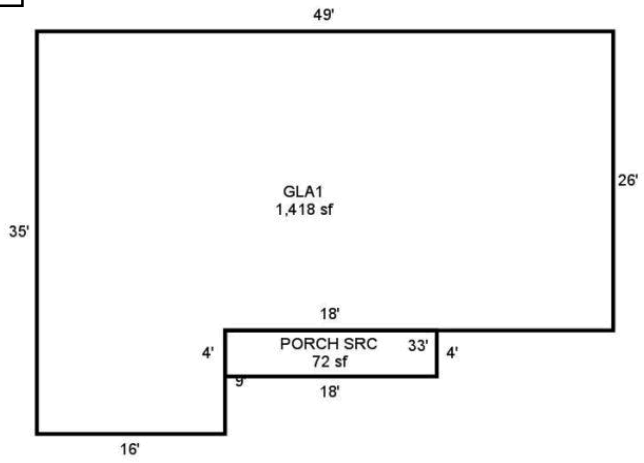
Serial No.
Make
Tag No. — LxW: 0 x 0

Commercial Elements

Stories: N/A — Story Height: 00 — Perimeter: 0
Units: 0 — Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Open Slab	0	X	180
Utility Wood	0	X	168
Slab Roof Ceil	0	X	72
Standard	0	X	5
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1



Legal Description

LT 1 BLK 2

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Tulsa County Records [OK]

Owner Information

ABEL, ZOE M

.

5157 S 34TH W AVE

TULSA, OK 741078905

Property Address

5157 S 34 AV W

Building No. 1

Account Number 089 R44125923305615

Sub Name: **VALLEY HOMES ADDN**

Lot: **2** Block: **2**

Area Name: **TULSA CITY**

Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$36105		$2307
Mobile	$0		$0
Total	$43366		$4771
		Exemptions	$2000
School District	T-1A	Net Assessed	$2771
School Levy	$134.51	Estimated Taxes	**$372.73**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Plus Interior Finish N/A

Condition Avg

Roof N/A Composition Shingle

Exterior Wall Frame Masonry Veneer N/A

Foundation Crawl Space Fireplace N/A

Heat None Air N/A

Beds 0 Baths 1 Total Rooms 0

Garage Garage: Attached Garage SF 368

Porch Porch: Slab Roof Ceil Porch SF 77

Basement N/A Basement SF 0

Year Built **1960** Eff Year Built **1960** Year Remodeled **0**

Square Footage **1134**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2353	10248	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

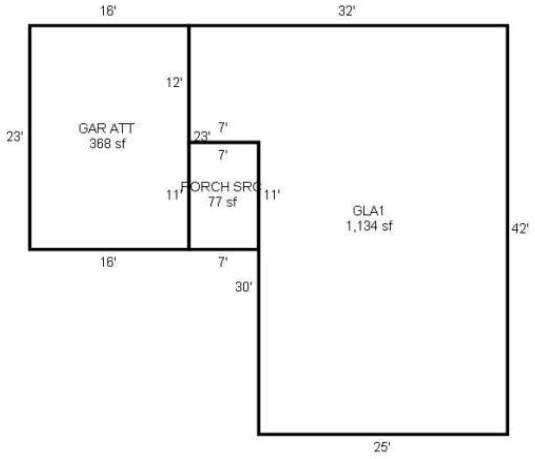
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	368
Patio 150 Sf	0	X	150
Slab Roof Ceil	0	X	77
Standard	0	X	3
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1



Legal Description

LT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

SALIMI, SAJID S INC
.
5150 S 33RD W AVE
TULSA, OK 74107

Property Address

5150 S 33 AV W TULSA 000000000

Building No. 1

Account Number 090 R35075923302050

Sub Name: **RICHMOND ACRES**
Lot: **10** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$75600		$8316
Mobile	$0		$0
Total	$200000		$22000
		Exemptions	$0
School District	T-1A	Net Assessed	$22000
School Levy	$134.51	Estimated Taxes	**$2959.22**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040714	400000	00000/00000	166.67
Grantor: SMITH, GAYE G, TRUSTEE			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial
Style Convenience Store
Design Convenience Store
Quality Average Interior Finish N/A
Condition Avg +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1985** Year Remodeled **1985**
Square Footage **2400**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.3458	15061	0	0

Description N/A

Mobile Home Information

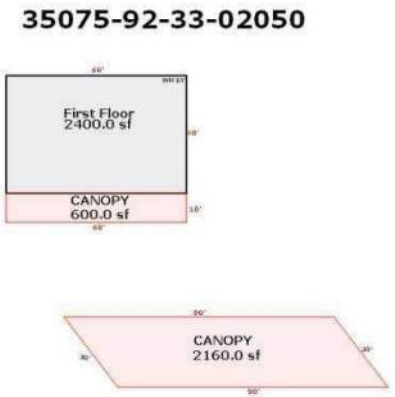
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 200
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	12000
Canopy - Gas Station Steel Good	0	X	2160
Canopies- stores, comm Steel Avg	0	X	600
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 10 11 & 12 LESS BEG NEC LT10 TH S61NW TOPT 32.25W NEC LT11 TH NWLY TOPT THN24.02E150 POB&LESS E10LT12&LESS BEG SECRLT11N45 NWLYTO PT10W&47.84N SECR LT11 TH S TOPT T

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Tulsa County Records [OK]

Owner Information

SALIMI, SAJID S INC
.
5150 S 33RD W AVE
TULSA, OK 74107

Property Address

5156 S 33 AV W TULSA 000000000

Building No. 1

Account Number 091 R44125923305550

Sub Name: **VALLEY HOMES ADDN**
Lot: **1** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$5000		$550
Mobile	$0		$0
Total	$68000		$7480
		Exemptions	$0
School District	T-1A	Net Assessed	$7480
School Levy	$134.51	Estimated Taxes	**$1006.13**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040714	400000	00000/00000	400000
Grantor: SMITH, GAYE G, TRUSTEE			
20040713	50000	00000/00000	50000
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.2893	12600	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Parking Lot
Design Parking Lot
Quality None Interior Finish N/A
Condition Fair
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **1**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Avg	0	X	9400
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LOT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

ADAIR, TODD DAVID
.
5162 S 33RD W AVE
TULSA, OK 74107

Property Address

5162 S 33 AV W

Building No. 1

Account Number 092 R44125923305565

Sub Name: **VALLEY HOMES ADDN**
Lot: **2** Block: **1**
Area Name: **TULSA CITY**
Section **33** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11536		$1111
Mobile	$0		$0
Total	$73233		$8056
		Exemptions	$1000
School District	T-1A	Net Assessed	$7056
School Levy	$134.51	Estimated Taxes	**$949.1**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20041021	0	00000/00000	0
Grantor: MELTON, KRISTY RENEE			
19990301	62000	06194/02136	53.82
Grantor:			
19940901	40000	05656/00855	34.72
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2893	12600	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

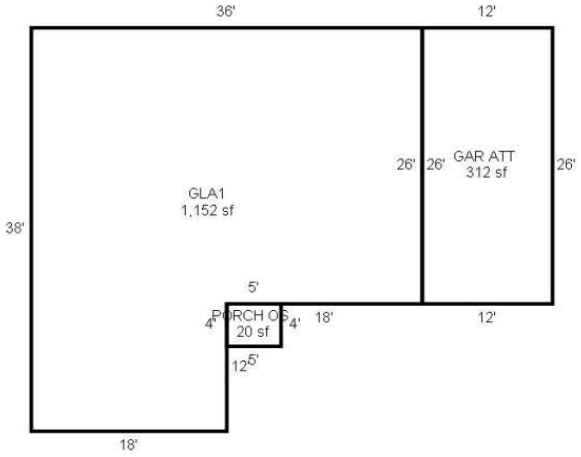
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1152**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Garage Shop 858 Sf	0	X	2000
Attached	0	X	312
Carport 231 Sf	0	X	300
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 2 BLK 1

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Tulsa County Records [OK]

Owner Information

MALACHI MANAGEMENT CORP
.
5043 S 33RD WEST AVE STE 100
TULSA, OK 74107

Property Address

5043 S 33 AV W TULSA 000000000

Building No. 1

Account Number 093 R06625922701510

Sub Name: **CARBONDALE**
Lot: **11** Block: **4**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$57400		$6314
Mobile	$0		$0
Total	$358700		$39457
		Exemptions	$0
School District	T-1A	Net Assessed	$39457
School Levy	$134.51	Estimated Taxes	**$5307.36**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150917	0	0/0	0
Grantor: PAYTON, ROY & PAMELA BROWN REV TRU			
20131227	0	0/0	0
Grantor: PAYTON, ROY F & PAMELA JANE BROWN			
20011016	276000	06735/01010	44.62
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.4392	19130	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Office Building
Design Office Building
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1982** Eff Year Built **1982** Year Remodeled **0**
Square Footage **6185**

Commercial Elements

Stories N/A Story Height 00 Perimeter 370
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	7500
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
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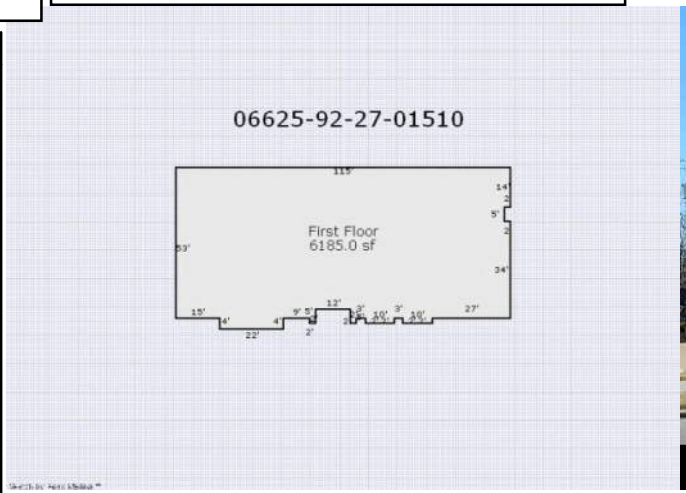

Legal Description

LTS 11 THRU 13 BLK 4

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Tulsa County Records [OK]

Owner Information

KNOWLTON TRUST

.

5107 S 33RD WEST AVE

TULSA, OK 74107

Property Address

5103 S 33 AV W TULSA 000000000

Building No. 1

Account Number 094 R06650923400010

Sub Name: **CARBONDALE SECOND ADDN**

Lot: **1** Block: **1**

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$211400		$23254
Mobile	$0		$0
Total	$275000		$30250
		Exemptions	$0
School District	T-1A	Net Assessed	$30250
School Levy	$134.51	Estimated Taxes	**$4068.93**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.3648	15892	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20060315	0	00000/00000	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
20050307	275000	00000/00000	68.75

Grantor: SOMMERS, WANDA JEAN, TRUSTEE

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Commercial

Style Warehouse Food Store

Design Warehouse Food Store

Quality Average Interior Finish N/A

Condition Avg +

Roof Flat N/A

Exterior Wall N/A N/A

Foundation N/A Fireplace N/A

Heat Package Unit Air N/A

Beds 0 Baths 0 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1950** Eff Year Built **1999** Year Remodeled **1999**

Square Footage **4000**

Commercial Elements

Stories N/A Story Height 00 Perimeter 260

Units 1 Rent 000

Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	13000
Dock-Height Floors 200000sq ft	0	X	500
Canopies- stores, comm Wood Avg	0	X	270
Utility Shed Metal Avg	0	X	136
Loading Dock - Steel Framed	0	X	112
Utility Shed Metal Avg	0	X	98
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

06650-92-34-00010

Legal Description

LTS 1 & 2 & PRT LT 3 BEG NWC LT 3 TH S1FOOT SE TO EL N43.59 W135 POB LESS BEG NEC LT 1 TH W135 S110 SE TO PT N TO PT 5S NL LT 1 E130 N5 POB BLK 1

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **094A R06650923400018**

Sub Name: **CARBONDALE SECOND ADDN**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19311231	0	01008/00309	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0271	1179	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 1 THRU 3 BEG NEC LT 1 TH W135 S105 SE TO PT N TO PT 5S NL LT 1 TH E130 N5 POB BLK 1

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Tulsa County Records [OK]

Owner Information

MALACHI MANAGEMENT CORPORATION
.
5043 S 33RD WEST AVE STE 100
TULSA, OK 74107

Property Address

5038 S 32 AV W

Building No. 0

Account Number 095 R06625922701550

Sub Name: **CARBONDALE**
Lot: **16** Block: **4**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14400		$1584
Mobile	$0		$0
Total	$14400		$1584
		Exemptions	$0
School District	T-1A	Net Assessed	$1584
School Levy	$134.51	Estimated Taxes	**$213.06**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120530	67000	0/0	0
Grantor: STRICKLAND, RONNIE GENE AND			
20080314	0	00000/00000	0
Grantor: SHERIFF TULSA CO			
20000201	60000	06329/00440	0
Grantor:			

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

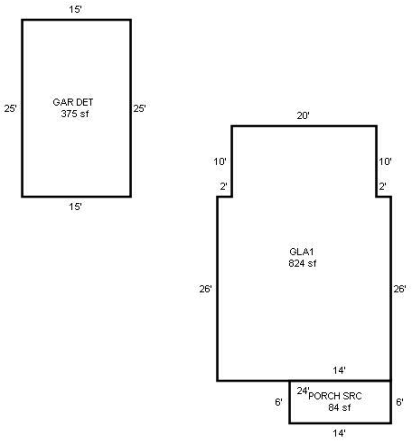
Serial No.
Make
Tag No. LxW x

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 16 BLK 4

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Tulsa County Records [OK]

Owner Information

MALACHI MANAGEMENT CORPORATION
.
5043 S 33RD WEST AVE STE 100
TULSA, OK 74107

Property Address

5048 S 32 AV W

Building No. **0**

Account Number **096 R06625922701540**

Sub Name: **CARBONDALE**
Lot: **15** Block: **4**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14400		$1584
Mobile	$0		$0
Total	$14400		$1584
		Exemptions	$0
School District	T-1A	Net Assessed	$1584
School Levy	$134.51	Estimated Taxes	**$213.06**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120530	67000	0/0	0
Grantor: STRICKLAND, RONNIE GENE AND			
20080314	0	00000/00000	0
Grantor: SHERIFF TULSA CO			
20000201	60000	06329/00440	0
Grantor:			

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A — Interior Finish N/A
Condition N/A
Roof N/A — N/A
Exterior Wall N/A — N/A
Foundation N/A — Fireplace N/A
Heat N/A — Air N/A
Beds 0 — Baths 0 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 0
Basement N/A — Basement SF 0
Year Built **0** — Eff Year Built **0** — Year Remodeled **0**
Square Footage **0**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

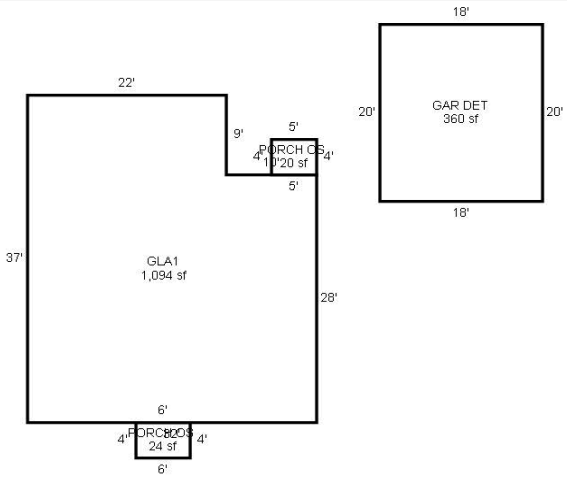
Serial No.
Make
Tag No. — LxW x

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0000
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 15 BLK 4

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MALACHI MANAGEMENT CORPORATION
.
5043 S 33RD WEST AVE STE 100
TULSA, OK 74107

Property Address

Building No. **0**

Account Number **097 R06625922701530**

Sub Name: **CARBONDALE**
Lot: **14** Block: **4**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10800		$1188
Mobile	$0		$0
Total	$10800		$1188
		Exemptions	$0
School District	T-1A	Net Assessed	$1188
School Levy	$134.51	Estimated Taxes	**$159.8**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120530	67000	0/0	0

Grantor: STRICKLAND, RONNIE GENE AND

Sale Date	Sale Price	Book/Page	$/SF
20080314	0	00000/00000	0

Grantor: SHERIFF TULSA CO

Sale Date	Sale Price	Book/Page	$/SF
20000201	60000	06329/00440	0

Grantor:

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1342	5846	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 14 LESS S5 THEREOF FOR STREET BLK 4

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **097A R06625922701538**

Sub Name: **CARBONDALE**
Lot: Block:
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19310918	0	00000/00000	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0155	675	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

S5 LT 14 BLK 4

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
INC
3210 W 51 ST
TULSA, OK 74107

Property Address

3210 W 51 ST S TULSA 741070000

Building No. 1

Account Number 098 R06650923400090

Sub Name: **CARBONDALE SECOND ADDN**
Lot: **21** Block: **1**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$53500		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.3068	13365	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030701	159000	07059/00567	53.43
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

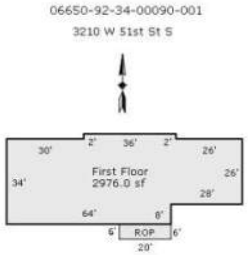
Type Commercial
Style Church
Design Medical Offices
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **2976**

Commercial Elements

Stories N/A Story Height 00 Perimeter 256
Units 0 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	7300
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 21 & 22 LESS N5 LT 22 FOR STREET BLK 1

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **098A R06650923400098**

Sub Name: **CARBONDALE SECOND ADDN**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0155	675	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19310918	0	00000/00000	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N5 LT 22 BLK 1

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
.
3210 W 51 ST
TULSA, OK 74107

Property Address

3210 W 51 ST S TULSA 741070000

Building No. 1

Account Number 099 R06650923400080

Sub Name: **CARBONDALE SECOND ADDN**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13800		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.1586	6908	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19641123	0	03516/00143	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

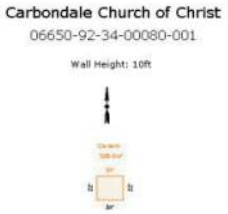
Type Commercial
Style Other OB
Design Other OB
Quality None Interior Finish N/A
Condition Avg
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **2006** Eff Year Built **2006** Year Remodeled **0**
Square Footage **1**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	6908
Carport - CM Open Metal	0	X	528
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 20 LESS BEG SWC TH N8.41 SE TO PT ON SL W26.75 POB BLK 1

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Tulsa County Records [OK]

Owner Information

FORT, MERLIN D AND JOY L
.
5039 S 32ND W AVE
TULSA, OK 74107

Property Address

5039 S 32 AV W

Building No. 1

Account Number 100 R06625922701760

Sub Name: **CARBONDALE**
Lot: **11** Block: **5**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$17612		$620
Mobile	$0		$0
Total	$26735		$2941
		Exemptions	$2000
School District	T-1A	Net Assessed	$941
School Levy	$134.51	Estimated Taxes	**$126.57**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19901001	19000	05281/01099	17.99
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

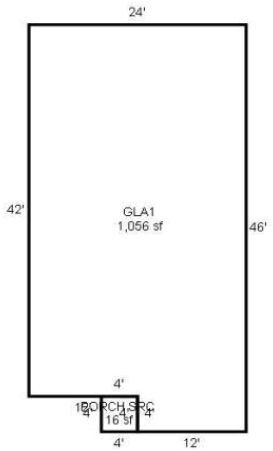
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 16
Basement N/A Basement SF 0
Year Built **1920** Eff Year Built **1920** Year Remodeled **0**
Square Footage **1056**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	16
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 11 BLK 5

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Tulsa County Records [OK]

Owner Information

BOHLANDER, JOHN P III
.
5043 S 32ND WEST AVE
TULSA, OK 74107

Property Address

5043 S 32 AV W

Building No. 1

Account Number 101 R06625922701770

Sub Name: **CARBONDALE**
Lot: **12** Block: **5**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14400		$980
Mobile	$0		$0
Total	$47700		$5247
		Exemptions	$2000
School District	T-1A	Net Assessed	$3247
School Levy	$134.51	Estimated Taxes	**$436.75**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150317	0	0/0	0
Grantor: BOHLANDER, JOHN P JR			
20040914	20000	00000/00000	26.04
Grantor: BOHLANDER, KATHRYN R			
19960701	15000	05831/02642	19.53
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

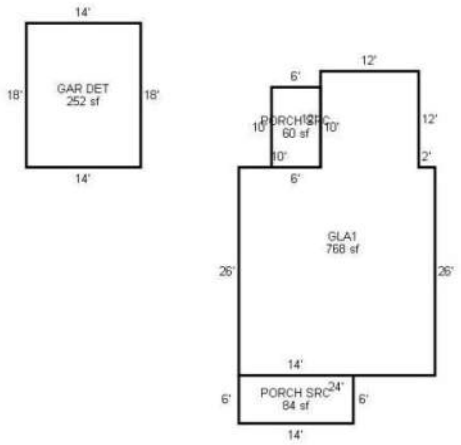
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 252
Porch N/A Porch SF 144
Basement N/A Basement SF 0
Year Built **1920** Eff Year Built **1920** Year Remodeled **0**
Square Footage **768**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	252
Slab Roof Ceil	0	X	84
Slab Roof Ceil	0	X	60
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 12 BLK 5

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Tulsa County Records [OK]

Owner Information

DUBUC, DOUG C
.
5047 S 32ND W AVE
TULSA, OK 74107

Property Address

5047 S 32 AV W TULSA 741070000

Building No. 1 | 102 | Account Number R06625922701780

Sub Name: CARBONDALE
Lot: 13 Block: 5
Area Name: TULSA CITY
Section 27 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$37500		$3404
Mobile	$0		$0
Total	$52000		$5720
		Exemptions	$1000
School District	T-1A	Net Assessed	$4720
School Levy	$134.51	Estimated Taxes	**$634.89**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19950101	41500	05688/01733	34.82
Grantor:			
19810601	34500	00000/00000	28.94
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1488	6480	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

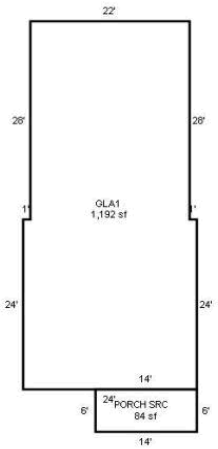
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 84
Basement N/A Basement SF 0
Year Built **1920** Eff Year Built **1920** Year Remodeled **0**
Square Footage **1192**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
C Pat 168 Sf Cpt 140 Sf	0	X	400
Slab Roof Ceil	0	X	84
Standard	0	X	3
Laundry Facility	0	X	1
Fireplace Single	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 13 BLK 5

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
.
3210 W 51 ST
TULSA, OK 74107

Property Address

3114 W 51 ST S TULSA 741070000

Building No. 1

Account Number 103 R06650923400100

Sub Name: **CARBONDALE SECOND ADDN**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$254618		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.6446	28080	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

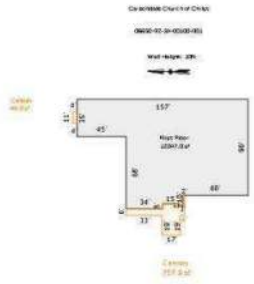
Type Commercial
Style Church
Design Church w/Sunday School
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **12247**

Commercial Elements

Stories N/A Story Height 00 Perimeter 524
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	17829
Canopy - CM Drive Under Avg	0	X	757
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 1 2 3 4 & BEG NWC LT 5 E135 S27 NW TO WL TH N17 POB BLK 2

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Tulsa County Records [OK]

Owner Information

SAND SPRINGS HOME
.
PO BOX 278
SAND SPRINGS, OK 74063

Property Address

5040 S 31 AV W TULSA 000000000

Building No. 1

Account Number 104 R06625922701810

Sub Name: **CARBONDALE**
Lot: **18** Block: **5**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$32500		$3575
Mobile	$0		$0
Total	$47000		$5170
		Exemptions	$0
School District	T-1A	Net Assessed	$5170
School Levy	$134.51	Estimated Taxes	**$695.42**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20131022	47000	0/0	61.2
Grantor: DUE, WANDA			
19841128	0	04830/02479	0
Grantor:			
19841101	41500	00000/00000	54.04
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair — Interior Finish Drywall
Condition Good
Roof Gable/Hip — Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space — Fireplace N/A
Heat Cool Air in Heat Ducts — Air N/A
Beds 0 — Baths 1 — Total Rooms 0
Garage Garage: Attached — Garage SF 240
Porch Porch: Slab Roof Ceil — Porch SF 28
Basement N/A — Basement SF 0
Year Built **1950** — Eff Year Built **1950** — Year Remodeled **0**
Square Footage **768**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.155	6750	0	0

Description N/A

Mobile Home Information

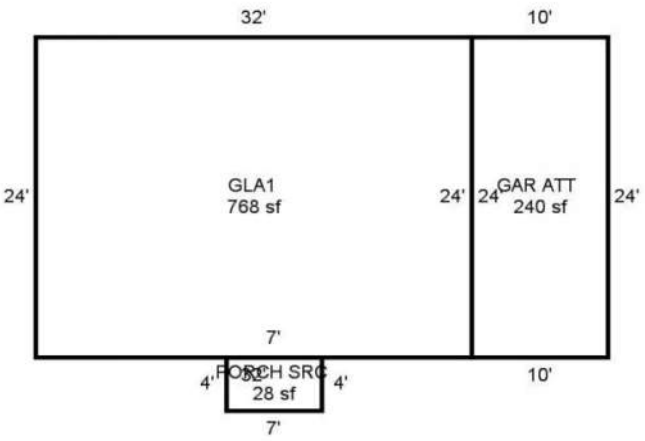
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	240
O Pat 140 Sf	0	X	150
Slab Roof Ceil	0	X	28
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 18 & 19 BLK 5

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Tulsa County Records [OK]

Owner Information

SCHULTZ, TERRY M
.
5044 S 31ST WEST AVE
TULSA, OK 74107

Property Address

5044 S 31 AV W

Building No. 1

Account Number: 105 R06625922701800

Sub Name: **CARBONDALE**
Lot: **16** Block: **5**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1338
Mobile	$0		$0
Total	$56400		$6204
		Exemptions	$1000
School District	T-1A	Net Assessed	$5204
School Levy	$134.51	Estimated Taxes	**$699.99**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120207	0	0/0	0
Grantor: SCHULTZ, FRANCEIL M			
20070817	0	00000/00000	0
Grantor: YAHOLA, FRANCEIL M			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.155	6750	0	0

Description: N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

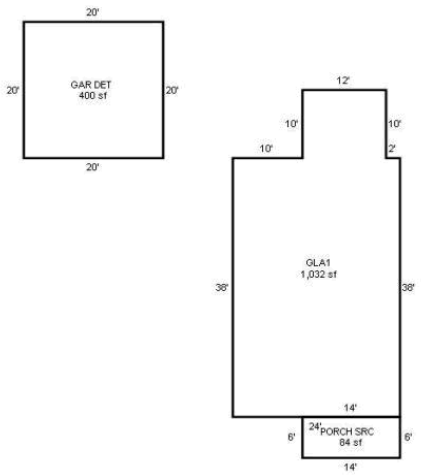
Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair Interior Finish: N/A
Condition: Good
Roof: N/A Composition Shingle
Exterior Wall: Frame Siding N/A
Foundation: Crawl Space Fireplace: N/A
Heat: Cool Air in Heat Ducts Air: N/A
Beds: 0 Baths: 1 Total Rooms: 0
Garage: Garage: Detached Garage SF: 400
Porch: Porch: Slab Roof Ceil Porch SF: 84
Basement: N/A Basement SF: 0
Year Built: **1920** Eff Year Built: **1920** Year Remodeled: **0**
Square Footage: **1032**

Commercial Elements

Stories: N/A Story Height: 00 Perimeter: 0
Units: 0 Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	400
Stg 150 Sf Stg 120 Sf	0	X	300
Slab Roof Ceil	0	X	84
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 16 17 BLK 5

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Tulsa County Records [OK]

Owner Information

STOVER, MARGARET M TTEE ROBERT &
MARGARET STOVER REV TRUST
6220 S 97TH WEST AVE
SAPULPA, OK 74066

Property Address

5048 S 31 AV W TULSA 741070000

Building No. 1

Account Number 106 R06625922701790

Sub Name: **CARBONDALE**
Lot: **14** Block: **5**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$49800		$5478
Mobile	$0		$0
Total	$64500		$7095
		Exemptions	$0
School District	T-1A	Net Assessed	$7095
School Levy	$134.51	Estimated Taxes	**$954.35**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140310	64500	0/0	51.93
Grantor: CASEY, JACKIE RAY EST			
20140115	0	0/0	0
Grantor: CASEY, NORA L			
20140115	0	0/0	0
Grantor: MCCARTHY, DORIS L EST CASEY, JACKIE RAY EST			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 90
Basement N/A Basement SF 0
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **1242**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1736	7560	0	0

Description N/A

Mobile Home Information

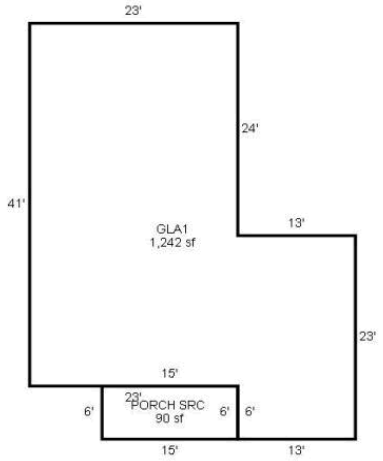
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	90
Standard	0	X	5
Wall Oven	0	X	1
Laundry Facility	0	X	1
Attic Fan with Timer	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 14 & 15 BLK 5

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
INC
3210 W 51 ST
TULSA, OK 74107

Property Address

TULSA 741070000

Building No. 1

Account Number: R06650923400170

107

Sub Name: **CARBONDALE SECOND ADDN**

Lot: **22** Block: **2**

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$21100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.1612	7020	0	0

Description: N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19821116	0	04650/00946	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type: Commercial
Style: Parking Lot
Design: Parking Lot
Quality: None Interior Finish: N/A
Condition: Avg
Roof: N/A N/A
Exterior Wall: N/A N/A
Foundation: N/A Fireplace: N/A
Heat: None Air: N/A
Beds: 0 Baths: 0 Total Rooms: 0
Garage: N/A Garage SF: 0
Porch: N/A Porch SF: 0
Basement: N/A Basement SF: 0
Year Built: **2000** Eff Year Built: **2000** Year Remodeled: **0**
Square Footage: **1**

Commercial Elements

Stories: N/A Story Height: 00 Perimeter: 0000
Units: 0 Rent: 000
Class Description: None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	2964
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 22 BLK 2

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
INC
3210 W 51 ST
TULSA, OK 74107

Property Address

TULSA 741070000

Building No. 1

Account Number 108 R06650923400160

Sub Name: **CARBONDALE SECOND ADDN**
Lot: **20 21** Block: **2**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2358		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.3223	14040	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19821116	0	04650/00946	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

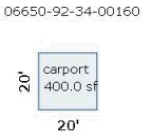
Type Commercial
Style Parking Lot
Design Parking Lot
Quality None Interior Finish N/A
Condition Avg
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **1**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	6908
Carport - CM Open Metal	0	X	400
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Sketch by Apex Medina™

Legal Description

LTS 20 21 BLK 2

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
.
3210 W 51 ST
TULSA, OK 74107

Property Address

5116 S 31 AV W TULSA 000000000

Building No. 1

Account Number 109 R06650923400150

Sub Name: **CARBONDALE SECOND ADDN**
Lot: **19** Block: **2**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$34500		$3795
Mobile	$0		$0
Total	$41500		$4565
		Exemptions	$0
School District	T-1A	Net Assessed	$4565
School Levy	$134.51	Estimated Taxes	**$614.04**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Multiple Unit
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Avg
Roof Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Central Air to Air Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1766**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1612	7020	0	0

Description N/A

Mobile Home Information

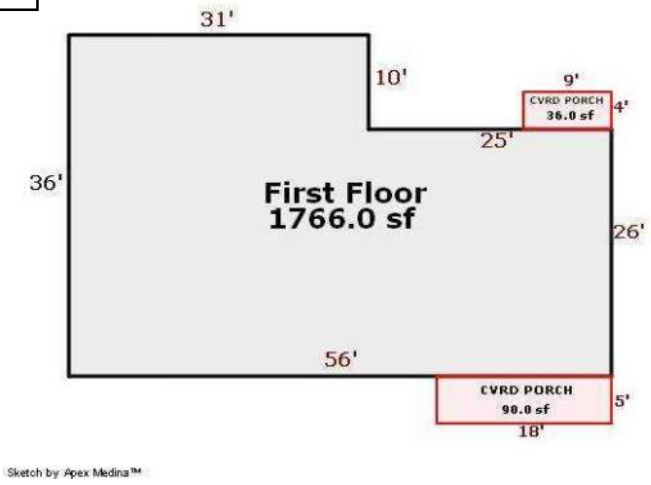
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 1 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Standard	0	X	7
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 19 BLK 2

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Tulsa County Records [OK]

Owner Information

CARBONDALE CHURCH OF CHRIST
.
3210 W 51ST ST
TULSA, OK 74107

Property Address

5116 S 31 AV W TULSA 000000000

Building No. 0

Account Number 110 R06650923400140

Sub Name: **CARBONDALE SECOND ADDN**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$3600		$396
Mobile	$0		$0
Total	$3600		$396
		Exemptions	$0
School District	T-1A	Net Assessed	$396
School Levy	$134.51	Estimated Taxes	**$53.27**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.0837	3645	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 18 BEG NEC TH S32 NW TO PT ON WL N22 E135 POB BLK 2

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF HWY R/W DIV
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **111** **R06650923400020**

Sub Name: **CARBONDALE SECOND ADDN**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$442		$49
Mobile	$0		$0
Total	$442		$49
		Exemptions	$0
School District	T-1A	Net Assessed	$49
School Levy	$134.51	Estimated Taxes	**$6.59**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.8729	125145	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 3 & 20 & ALL LTS 4 THRU 19 & N29 VAC ST ADJ ON S BEG SWC LT 3 TH N51 SE TO PT ON NL LT 19 26.75E NWC TH E108.25 S416 E30 S29 W300 N445 POB BLK 1

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Tulsa County Records [OK]

Owner Information

HOPE, WEALTHIA A
.
4938 OAK LEAF DR
TULSA, OK 74131

Property Address

5037 S 31 AV W

Building No. 1

Account Number: 112 R06625922703400

Sub Name: **CARBONDALE**
Lot: **19** Block: **12**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$25200	$2772
Mobile	$0	$0
Total	$39900	$4389
	Exemptions	$0
School District T-1A	Net Assessed	$4389
School Levy $134.51	Estimated Taxes	**$590.36**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120120	0	0/0	0
Grantor: HOPE, JERRY D			
19920107	0	05372/01789	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1756	7650	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

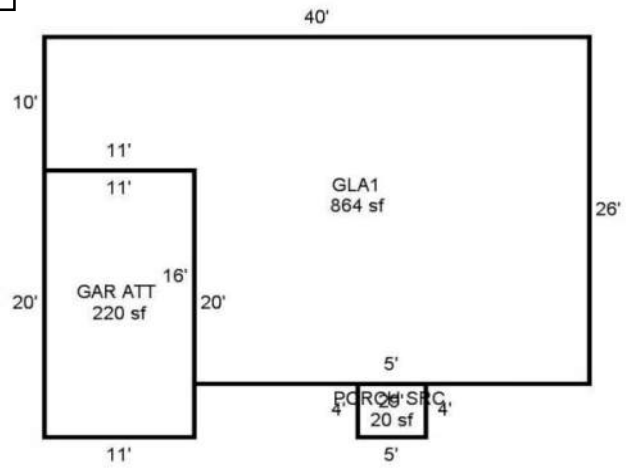
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Good		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 220
Porch	Porch: Slab Roof Ceil		Porch SF 20
Basement	N/A		Basement SF 0
Year Built	**1950**	Eff Year Built **1950**	Year Remodeled **0**
Square Footage	**864**		

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	220
Slab Roof Ceil	0	X	20
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 19 20 BLK 12

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Tulsa County Records [OK]

Owner Information

OAKLEY, SHELBY D

.

4235 S 33RD W AVE

TULSA, OK 74107

Property Address

5047 S 31 AV W TULSA 000000000

Building No. 1

113

Account Number R06625922703410

Sub Name: **CARBONDALE**

Lot: **21** Block: **12**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$71000		$7810
Mobile	$0		$0
Total	$87200		$9592
		Exemptions	$0
School District	T-1A	Net Assessed	$9592
School Levy	$134.51	Estimated Taxes	**$1290.22**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140609	0	0/0	0
Grantor: TULSA COUNTY TREASURER			
20091008	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20050919	0	00000/00000	0
Grantor: HAMILTON, JACOB L			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3347	14580	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design 1½ Story Fin

Quality Fair Interior Finish Drywall

Condition Good

Roof Gable/Hip Composition Shingle

Exterior Wall Frame Siding N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1.1 Total Rooms 0

Garage Carport: Gable Garage SF 315

Porch Porch: Slab Roof Ceil Porch SF 16

Basement N/A Basement SF 0

Year Built **1946** Eff Year Built **1946** Year Remodeled **0**

Square Footage **2179**

Commercial Elements

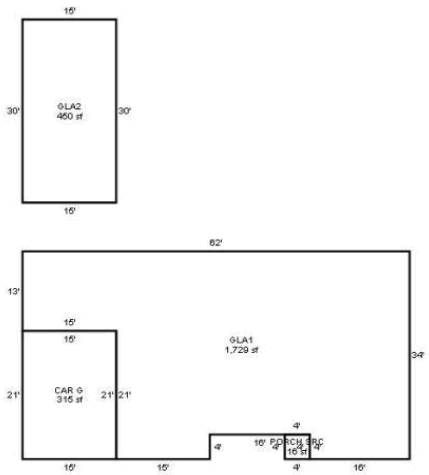
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Gable	0	X	315
Stg 72 Sf	0	X	100
Slab Roof Ceil	0	X	16
Standard	0	X	7
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 21 22 23 24 BLK 12

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Tulsa County Records [OK]

Owner Information

BRANCHCOMB, JIMMY
.
486 E 136TH PL
GLENPOOL, OK 74033

Property Address

5044 S 30 AV W

Building No. 1

Account Number 114 R06625922703440

Sub Name: **CARBONDALE**
Lot: **27** Block: **12**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$44300		$4873
Mobile	$0		$0
Total	$58700		$6457
		Exemptions	$0
School District	T-1A	Net Assessed	$6457
School Levy	$134.51	Estimated Taxes	**$868.53**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20020501	53500	06762/00721	69.66
Grantor:			
19860501	38000	04942/01547	49.48
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

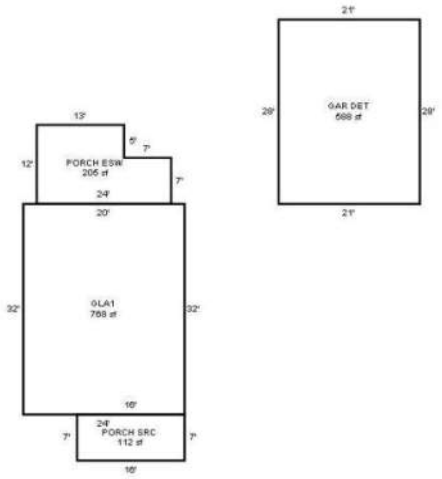
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Detached Garage SF 588
Porch N/A Porch SF 317
Basement N/A Basement SF 0
Year Built **1939** Eff Year Built **1939** Year Remodeled **0**
Square Footage **768**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	588
Encl Solid Wall	0	X	205
Slab Roof Ceil	0	X	112
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 27 BLK 12

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Tulsa County Records [OK]

Owner Information

DURBIN, DAVID J
.
4959 E 105TH ST
TULSA, OK 741376021

Property Address

5048 S 30 AV W TULSA 000000000

Building No. **0**

Account Number **115** **R06625922703430**

Sub Name: **CARBONDALE**
Lot: **26** Block: **12**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14400		$1584
Mobile	$0		$0
Total	$14400		$1584
		Exemptions	$0
School District	T-1A	Net Assessed	$1584
School Levy	$134.51	Estimated Taxes	**$213.06**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160108	0	0/0	0
Grantor: ANDERSON, JANE ANN			
19931215	0	05573/02550	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

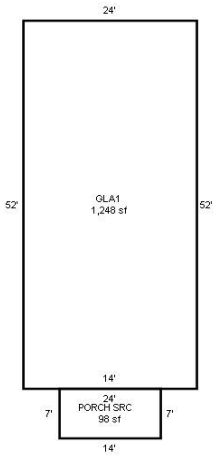
Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

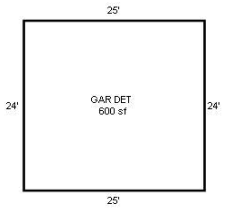
Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0





Legal Description

LT 26 BLK 12

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Tulsa County Records [OK]

Owner Information

DURBIN, DAVID J
.
4959 E 105TH ST
TULSA, OK 741376021

Property Address

Building No. 0

Account Number 116 R06625922703420

Sub Name: CARBONDALE
Lot: 25 Block: 12
Area Name: TULSA CITY
Section 27 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1383		$152
Mobile	$0		$0
Total	$1383		$152
		Exemptions	$0
School District	T-1A	Net Assessed	$152
School Levy	$134.51	Estimated Taxes	**$20.45**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160108	0	0/0	0
Grantor: ANDERSON, JANE ANN			
19931215	0	05573/02550	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1488	6480	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 25 BLK 12

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Tulsa County Records [OK]

Owner Information

WAKEFIELD, WILLIAM JR
.
4702 S 27 WEST AVE
TULSA, OK 74107

Property Address

5043 S 30 AV W

Building No. 1

Account Number: R06625922703650 (117)

Sub Name: **CARBONDALE**
Lot: **11** Block: **13**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15600		$1716
Mobile	$0		$0
Total	$30000		$3300
		Exemptions	$0
School District	T-1A	Net Assessed	$3300
School Levy	$134.51	Estimated Taxes	**$443.88**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100721	0	0/0	0
Grantor: SECRETARY OF VETERANS AFFAIRS			
20100618	0	0/0	0
Grantor: ARVEST MORTGAGE COMPANY			
20100401	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			

Building Elements

Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair — Interior Finish: N/A
Condition: Good
Roof: N/A — Composition Shingle
Exterior Wall: Frame Siding — N/A
Foundation: Crawl Space — Fireplace: N/A
Heat: None — Air: N/A
Beds: 0 — Baths: 1 — Total Rooms: 0
Garage: Garage: Detached — Garage SF: 480
Porch: N/A — Porch SF: 0
Basement: N/A — Basement SF: 0
Year Built: **1930** — Eff Year Built: **1930** — Year Remodeled: **0**
Square Footage: **816**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description: N/A

Mobile Home Information

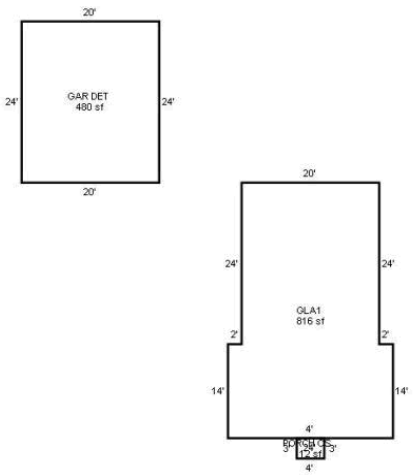
Serial No.
Make
Tag No. — LxW: 0 x 0

Commercial Elements

Stories: N/A — Story Height: 00 — Perimeter: 0
Units: 0 — Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	480
Patio 285	0	X	260
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 11 BLK 13

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Tulsa County Records [OK]

Owner Information

SMITH, JAMES M AND MELINDA K
.
2210 W 77TH ST
TULSA, OK 74132

Property Address

5045 S 30 AV W

Building No. 1

Account Number 118 R06625922703660

Sub Name: **CARBONDALE**
Lot: **12** Block: **13**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14400		$1584
Mobile	$0		$0
Total	$44400		$4884
		Exemptions	$0
School District	T-1A	Net Assessed	$4884
School Levy	$134.51	Estimated Taxes	**$656.95**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19960122	0	05776/01651	0
Grantor:			
19851001	31000	00000/00000	40.36
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

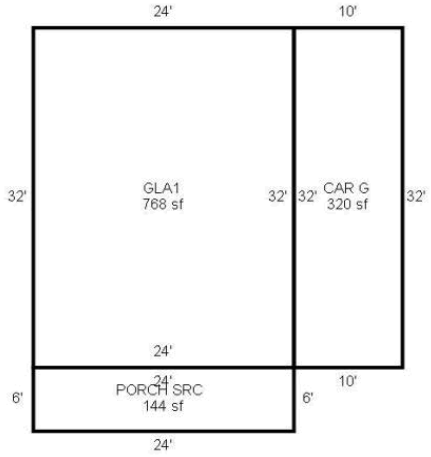
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Carport: Gable Garage SF 320
Porch Porch: Slab Roof Ceil Porch SF 144
Basement N/A Basement SF 0
Year Built **1940** Eff Year Built **1940** Year Remodeled **0**
Square Footage **768**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Pat 432 Sf	0	X	450
Gable	0	X	320
Slab Roof Ceil	0	X	144
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 12 BLK 13

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Tulsa County Records [OK]

Owner Information

D & P PROPERTIES LLC
.
PO BOX 1203
SAND SPRINGS, OK 74063

Property Address

5047 S 30 AV W

Building No. 1

Account Number 119 R06625922703670

Sub Name: **CARBONDALE**
Lot: **13** Block: **13**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1595
Mobile	$0		$0
Total	$35500		$3905
		Exemptions	$0
School District	T-1A	Net Assessed	$3905
School Levy	$134.51	Estimated Taxes	**$525.26**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20060801	35500	00000/00000	42.26
Grantor: PRICE, DEBORAH D			
19950601	32000	05721/00073	38.1
Grantor:			
19940501	11000	05622/01524	13.1
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair — Interior Finish N/A
Condition Good
Roof N/A — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat Cool Air in Heat Ducts — Air N/A
Beds 0 — Baths 1 — Total Rooms 0
Garage N/A — Garage SF 0
Porch Porch: Slab Roof Ceil — Porch SF 30
Basement N/A — Basement SF 0
Year Built **1920** — Eff Year Built **1920** — Year Remodeled **0**
Square Footage **840**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1488	6480	0	0

Description N/A

Mobile Home Information

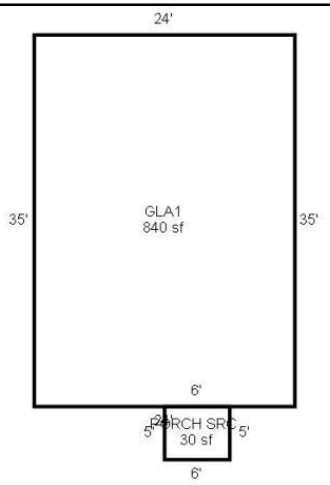
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	30
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 13 BLK 13

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Tulsa County Records [OK]

Owner Information

HARRY LLC
.
2973 E 77TH ST S
TULSA, OK 74136

Property Address

5040 S 29 AV W

Building No. 1

Account Number 120 R06625922703690

Sub Name: **CARBONDALE**
Lot: **16** Block: **13**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$600		$66
Mobile	$0		$0
Total	$15000		$1650
		Exemptions	$0
School District	T-1A	Net Assessed	$1650
School Levy	$134.51	Estimated Taxes	**$221.94**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20021201	0	07270/02424	0
Grantor:			
20000401	6000	06349/02076	9.2
Grantor:			
19860901	21000	04969/00828	32.21
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1457	6345	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

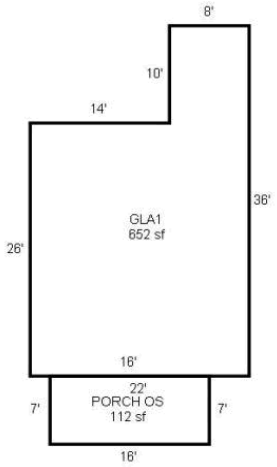
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Avg
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **652**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Open Pat 378 Sf	0	X	350
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 16 BLK 13

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Tulsa County Records [OK]

Owner Information

GLOVER, WANDA P
.
2903 W 51ST ST
TULSA, OK 74107

Property Address

2903 W 51 ST S

Building No. 1

Account Number R06625922703680

121

Sub Name: **CARBONDALE**
Lot: **14** Block: **13**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$50000		$4726
Mobile	$0		$0
Total	$64600		$7106
		Exemptions	$1000
School District	T-1A	Net Assessed	$6106
School Levy	$134.51	Estimated Taxes	**$821.32**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090803	0	0/0	0
Grantor: GLOVER, WANDA P AND JAMES F POPLIN			
19990616	0	06230/01094	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2944	12825	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

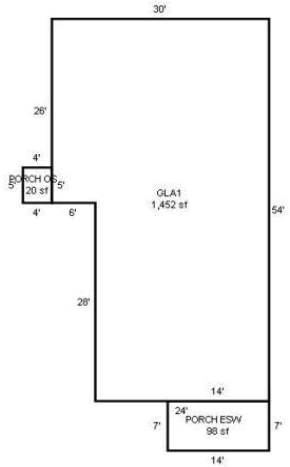
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Encl Solid Wall Porch SF 98
Basement N/A Basement SF 0
Year Built **1920** Eff Year Built **1920** Year Remodeled **0**
Square Footage **1452**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 768 Stg 288	0	X	1440
Encl Solid Wall	0	X	98
Standard	0	X	3
Fireplace Single	0	X	1
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 14 & 15 BLK 13

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Tulsa County Records [OK]

Owner Information

VENETOFF, RICHARD
.
1002 TENNISON DR
EULESS, TX 760393276

Property Address

2825 W 51 ST S

Building No. 1

122

Account Number R29875922716440

Sub Name: **OAK GROVE ADDN - CARBONDALE**

Lot: **7** Block: **3**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$18690		$2056
Mobile	$0		$0
Total	$69510		$7646
		Exemptions	$0
School District	T-1A	Net Assessed	$7646
School Levy	$134.51	Estimated Taxes	**$1028.46**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20141217	0	0/0	0

Grantor: VENETOFF, CAROLYN

Sale Date	Sale Price	Book/Page	$/SF
19950601	60500	05723/00762	57.18

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
19900201	26000	05234/02016	24.57

Grantor:

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4146	18060	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Plus Interior Finish N/A

Condition Good

Roof N/A Composition Shingle

Exterior Wall Frame Masonry Veneer N/A

Foundation Conventional Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1 Total Rooms 0

Garage Garage: Detached Garage SF 506

Porch N/A Porch SF 256

Basement N/A Basement SF 1260

Year Built **1930** Eff Year Built **1930** Year Remodeled **0**

Square Footage **1058**

Commercial Elements

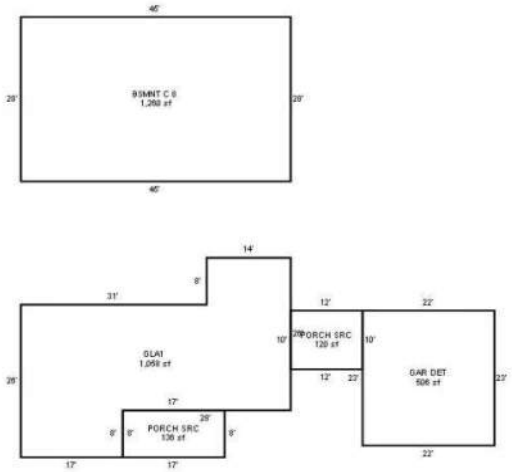
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Bsmnt Conc 8 ft	0	X	1260
Detached	0	X	506
Carport 230 Sf	0	X	350
Slab Roof Ceil	0	X	136
Slab Roof Ceil	0	X	120
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0



Legal Description

LT 7 BLK 3

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Tulsa County Records [OK]

Owner Information

TOWNES, ROBERT H
.
2823 W 51ST ST
TULSA, OK 74107

Property Address

2823 W 51 ST S

Building No. 1

Account Number 123 R29875922716430

Sub Name: OAK GROVE ADDN - CARBONDALE
Lot: 6 Block: 3
Area Name: TULSA CITY
Section 27 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$66045		$7265
Mobile	$0		$0
Total	$84735		$9321
		Exemptions	$0
School District	T-1A	Net Assessed	$9321
School Levy	$134.51	Estimated Taxes	**$1253.77**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19941201	53500	05681/01764	28.83
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4146	18060	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

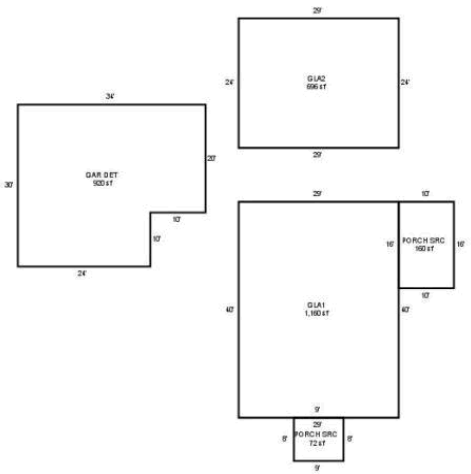
Type	Residential		
Style	Single Family Residential *CODE		
Design	1½ Story Fin		
Quality	Fair Plus	Interior Finish	N/A
Condition	Avg +		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Detached		Garage SF 920
Porch	N/A		Porch SF 232
Basement	N/A		Basement SF 0
Year Built	**1930**	Eff Year Built **1930**	Year Remodeled **0**
Square Footage	**1856**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	920
Slab Roof Ceil	0	X	160
Slab Roof Ceil	0	X	72
Standard	0	X	3
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 6 BLK 3

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Tulsa County Records [OK]

Owner Information

BROWN, HARLEY L AND BARBARA
.
2717 W 51ST ST
TULSA, OK 741077617

Property Address

2717 W 51 ST S

Building No. 1

Account Number R29875922716550

Sub Name: OAK GROVE ADDN - CARBONDALE
Lot: 7 Block: 4
Area Name: TULSA CITY
Section 27 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$20500		$2015
Mobile	$0		$0
Total	$85300		$9383
		Exemptions	$1000
School District	T-1A	Net Assessed	$8383
School Levy	$134.51	Estimated Taxes	$1127.6

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.735	32018	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19860212	0	04924/00136	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

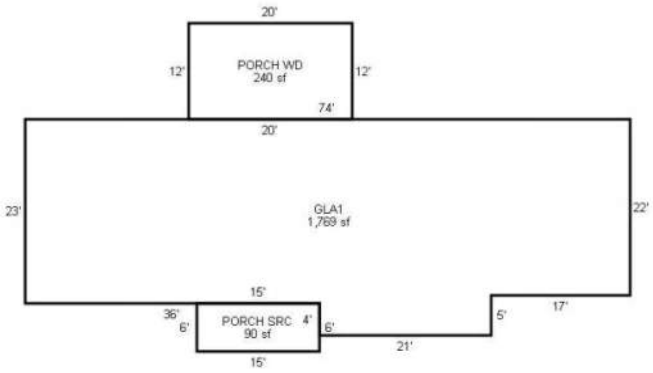
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 90
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1769**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	90
Standard	0	X	6
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Trash Compactor	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Microwave with Fan	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1



Legal Description

LTS 7 8 BLK 4

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Tulsa County Records [OK]

Owner Information

FARRAN, RANDALL E & BARBARA LYNN
.
5046 S 27TH WEST AVE
TULSA, OK 74107

Property Address

5046 S 27 AV W

Building No. 1

Account Number 125 R29875922716540

Sub Name: **OAK GROVE ADDN - CARBONDALE**
Lot: **6** Block: **4**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$16377		$1564
Mobile	$0		$0
Total	$69113		$7602
		Exemptions	$1000
School District	T-1A	Net Assessed	$6602
School Levy	$134.51	Estimated Taxes	**$888.04**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110922	0	0/0	0
Grantor: FARRAN, RANDALL E			
20050223	0	00000/00000	0
Grantor: BERRY, CURTIS WENDELL			
19840301	56500	00000/00000	43.87
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1928	8400	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

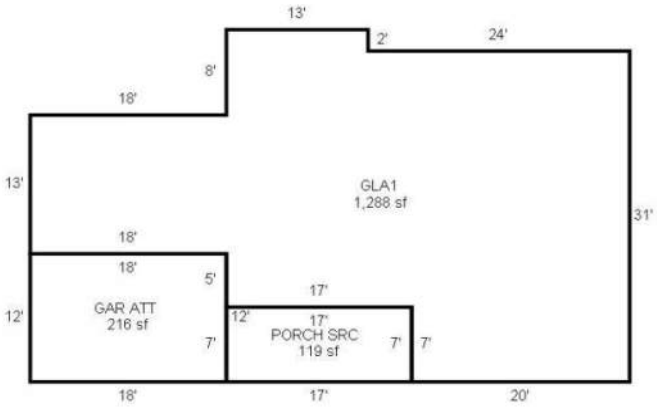
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 216
Porch Porch: Slab Roof Ceil Porch SF 119
Basement N/A Basement SF 0
Year Built **1948** Eff Year Built **1948** Year Remodeled **0**
Square Footage **1288**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	216
Slab Roof Ceil	0	X	119
Standard	0	X	8
Fireplace Fair 1 Story	0	X	1
Allowance	0	X	1
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

N60 LT 6 BLK 4

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Tulsa County Records [OK]

Owner Information

LONE WOLF, SARAH JEAN
.
5050 S 27TH W AVE
TULSA, OK 741077631

Property Address

5050 S 27 AV W

Building No. 1

Account Number 126 R29875922716542

Sub Name: **OAK GROVE ADDN - CARBONDALE**
Lot: **6** Block: **4**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$58558		$5629
Mobile	$0		$0
Total	$72123		$7933
		Exemptions	$1000
School District	T-1A	Net Assessed	$6933
School Levy	$134.51	Estimated Taxes	**$932.56**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20151009	0	0/0	0
Grantor: LONE WOLF, SARAH JEAN			
19881101	0	05137/01679	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2208	9618	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

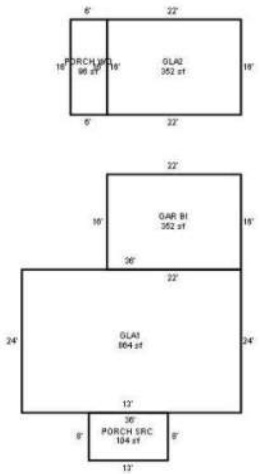
Type	Residential		
Style	Single Family Residential *CODE		
Design	2 Story		
Quality	Fair Plus	Interior Finish	N/A
Condition	Avg +		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 2	Total Rooms 0
Garage	Garage: Built In	Garage SF	352
Porch	Porch: Slab Roof Ceil	Porch SF	104
Basement	N/A	Basement SF	0
Year Built	**1985**	Eff Year Built **1985**	Year Remodeled **0**
Square Footage	**1216**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	864
Built In	0	X	352
Slab Roof Ceil	0	X	104
Standard	0	X	6
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
N/A	0		0
N/A	0		0



Legal Description

S68.7 LT 6 BLK 4

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **R99227922724044**

127

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.1577	6870	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20010720	0	06564/00667	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG SWC E/2 SE SW TH N264 E30 S264 W30 POB LESS S35 FOR ST SEC 27 19 12 .158AC

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Tulsa County Records [OK]

Owner Information

LAWSON, BILLY J
.
2545 W 51ST ST S
TULSA, OK 74107

Property Address

2545 W 51 ST S

Building No. 1

Account Number 128 R99227922723860

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$18607		$1814
Mobile	$0		$0
Total	$80000		$8800
		Exemptions	$1000
School District	T-1A	Net Assessed	$7800
School Levy	$134.51	Estimated Taxes	**$1049.18**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20101006	0	0/0	0
Grantor: LAWSON, BILLY J AND BETTY A			
20040801	80000	00000/00000	77.52
Grantor: LANE, DENIS TROY, TRUSTEE			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 220
Porch Porch: Slab Roof Ceil Porch SF 36
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **1032**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Land Information

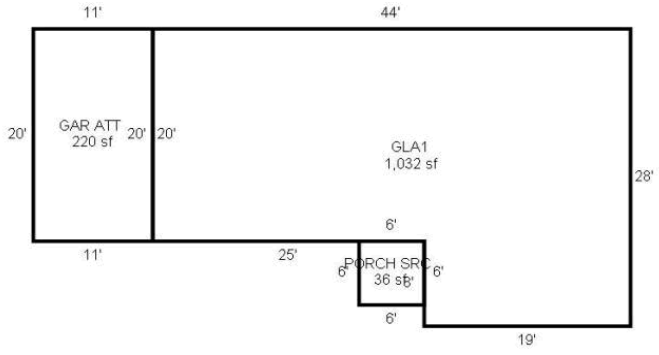
Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.7097	30915	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 400 Sf O Pat 625 Stg 168	0	X	1675
Attached	0	X	220
Stg 96 Sf	0	X	150
Slab Roof Ceil	0	X	36
Standard	0	X	3
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Laundry Facility	0	X	1
N/A	0		0



Legal Description

BEG SWC E/2 SE SW TH N264 E165 S264 W165 POB LESS S35 & LESS W30 FOR ST SEC 27 19 12 .710AC

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Tulsa County Records [OK]

Owner Information

COX, TY & ELIZABETH HURFORD
.
5042 S 26TH WEST AVE
TULSA, OK 74107

Property Address

5042 S 26 AV W TULSA 000000000

Building No. 1

Account Number 129 R15250922708030

Sub Name: **FRANK'S ADDN**
Lot: **7** Block: **1**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$74200		$8162
Mobile	$0		$0
Total	$90000		$9900
		Exemptions	$0
School District	T-1A	Net Assessed	$9900
School Levy	$134.51	Estimated Taxes	**$1331.65**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110401	90000	0/0	65.31
Grantor: RYAN, JUDY D			
20100304	40000	0/0	29.03
Grantor: H U D			
20091113	0	0/0	0
Grantor: TULSA COUNTRY SHERIFF			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1896	8260	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

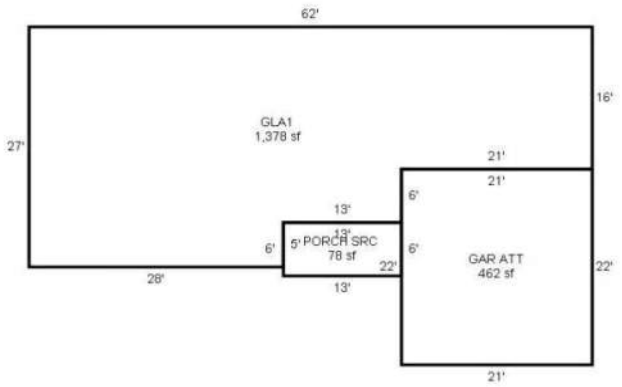
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 462
Porch Porch: Slab Roof Ceil Porch SF 78
Basement N/A Basement SF 0
Year Built **1962** Eff Year Built **1962** Year Remodeled **0**
Square Footage **1378**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1378
Attached	0	X	462
Patio 234 Sf	0	X	300
Slab Roof Ceil	0	X	78
Standard	0	X	6
Allowance	0	X	1
Fireplace Average 1 Story	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0



Legal Description

LT 7 BLK 1

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Tulsa County Records [OK]

Owner Information

JOHNSON, STAN AND CONNIE
.
5928 W 43RD ST
TULSA, OK 74107

Property Address

5048 S 26 AV W

Building No. 1

Account Number 130 R15250922708040

Sub Name: **FRANK'S ADDN**
Lot: **8** Block: **1**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$70245		$7727
Mobile	$0		$0
Total	$87255		$9598
		Exemptions	$0
School District	T-1A	Net Assessed	$9598
School Levy	$134.51	Estimated Taxes	**$1291.03**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040301	80000	07260/02170	60.38
Grantor:			
19940201	52500	05597/00491	39.62
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 440
Porch N/A Porch SF 432
Basement N/A Basement SF 0
Year Built **1968** Eff Year Built **1968** Year Remodeled **0**
Square Footage **1325**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2303	10030	0	0

Description N/A

Mobile Home Information

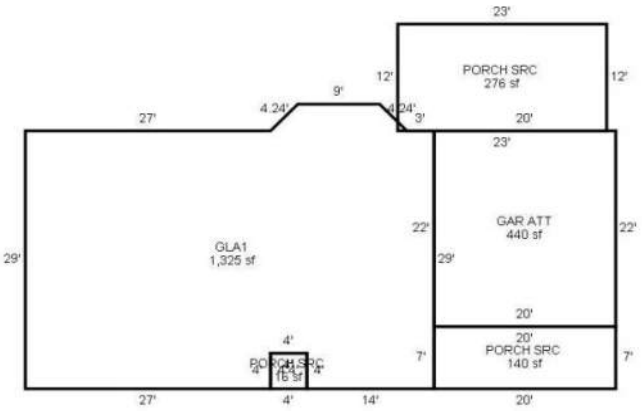
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1325
Attached	0	X	440
Slab Roof Ceil	0	X	276
O Pat 200 Sf	0	X	200
Slab Roof Ceil	0	X	156
Standard	0	X	7
Laundry Facility	0	X	1
Garage Door Opener	0	X	1
Range Hood Fan	0	X	1
Bath Heater	0	X	1



Legal Description

LT 8 BLK 1

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Tulsa County Records [OK]

Owner Information

LEE, LINLY P

.

5039 S 26TH W AVE

TULSA, OK 74107

Property Address

5039 S 26 AV W

Building No. 1

131

Account Number R15250922708150

Sub Name: **FRANK'S ADDN**

Lot: **7** Block: **2**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15031		$1467
Mobile	$0		$0
Total	$80954		$8905
		Exemptions	$1000
School District	T-1A	Net Assessed	$7905
School Levy	$134.51	Estimated Taxes	**$1063.3**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19931209	0	05571/02424	0
Grantor:			
19891101	50000	05220/00961	32.03
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	N/A
Condition	Good		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Brick Veneer		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 2	Total Rooms 0
Garage	Garage: Attached		Garage SF 504
Porch	Porch: Slab Roof Ceil		Porch SF 96
Basement	N/A		Basement SF 0
Year Built	**1960**	Eff Year Built **1960**	Year Remodeled **0**
Square Footage	**1561**		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1896	8260	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

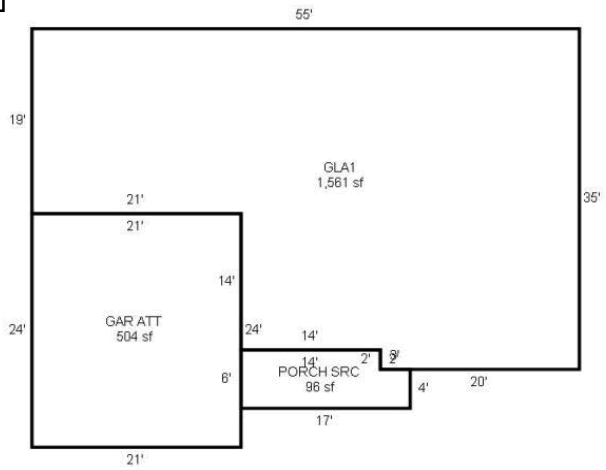
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	504
Patio 192 Sf	0	X	200
Slab Roof Ceil	0	X	96
Standard	0	X	6
Laundry Facility	0	X	1
Garage Door Opener	0	X	1
Range Hood Fan	0	X	1
Bath Heater	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1



Legal Description

LT 7 BLK 2

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Tulsa County Records [OK]

Owner Information

SHANKS, RONALD A
.
5047 S 26TH WEST AVE
TULSA, OK 74107

Property Address

5047 S 26 AV W

Building No. 1

Account Number 132 R15250922708160

Sub Name: **FRANK'S ADDN**
Lot: **8** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14682		$1299
Mobile	$0		$0
Total	$102500		$11275
		Exemptions	$2000
School District	T-1A	Net Assessed	$9275
School Levy	$134.51	Estimated Taxes	**$1247.58**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120723	102500	0/0	54.81
Grantor: BUNDY, BETTIE J			
20120703	0	0/0	0
Grantor: BUNDY FAMILY PARTNERSHIP			
20010821	0	06583/00629	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2303	10030	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

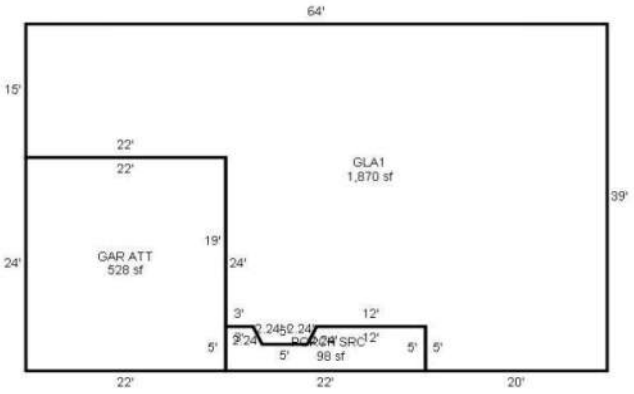
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Avg +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 528
Porch Porch: Slab Roof Ceil Porch SF 98
Basement N/A Basement SF 0
Year Built **1966** Eff Year Built **1966** Year Remodeled **0**
Square Footage **1870**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1870
Attached	0	X	528
Pat 176 Sf Metal Cov Pat 220 Sf	0	X	500
Slab Roof Ceil	0	X	98
Standard	0	X	7
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1



Legal Description

LT-8-BLK-2

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Tulsa County Records [OK]

Owner Information

BUNDY, SUSAN J TRUSTEE
SUSAN J BUNDY TRUST
2503 W 51ST ST
TULSA, OK 741077615

Property Address

2503 W 51 ST S

Building No. 1

Account Number 133 R99227922724160

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$54800		$5281
Mobile	$0		$0
Total	$73400		$8074
		Exemptions	$1000
School District	T-1A	Net Assessed	$7074
School Levy	$134.51	Estimated Taxes	**$951.52**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5928	25824	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20060428	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

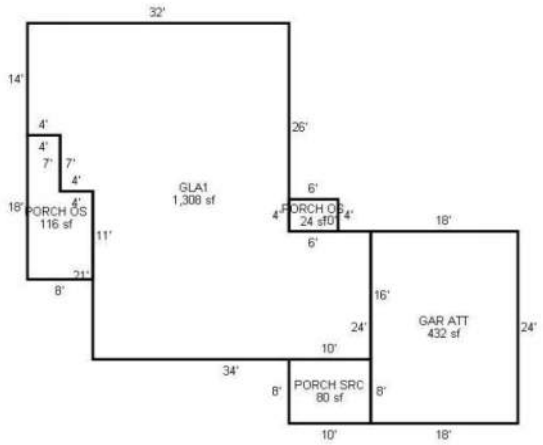
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 432
Porch Porch: Slab Roof Ceil Porch SF 80
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1308**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	432
Slab Roof Ceil	0	X	80
Standard	0	X	3
Security/Fire Alarm	0	X	1
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG SECR SW TH N193.07 W208.71 S193.07 E208.71 POB LESS S40 & E40 N153.07 FOR ST SEC 27 19 12 .593AC

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Tulsa County Records [OK]

Owner Information

SELLARS-WILSON, ROXANA K
.
2355 W 51ST ST
TULSA, OK 741077719

Property Address

2355 W 51 ST S

Building No. 1

Account Number 134 R26425922716160

Sub Name: **MAY TERRACE 2ND SUB BLK A**
Lot: **4** Block: **A**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$87500		$8791
Mobile	$0		$0
Total	$104900		$11539
		Exemptions	$1000
School District	T-1A	Net Assessed	$10539
School Levy	$134.51	Estimated Taxes	**$1417.6**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20151210	0	0/0	0
Grantor: USA			
20071121	0	00000/00000	0
Grantor: WALKER, WILLIAM J			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4692	20440	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

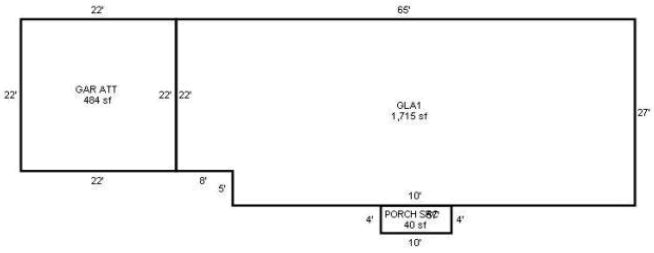
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 484
Porch Porch: Slab Roof Ceil Porch SF 40
Basement N/A Basement SF 0
Year Built **1962** Eff Year Built **1962** Year Remodeled **0**
Square Footage **1715**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Cov Patio 216 Sf Stg 210 Sf	0	X	500
Attached	0	X	484
Slab Roof Ceil	0	X	40
Standard	0	X	8
Fireplace Single	0	X	1
Wall Oven	0	X	1
Dishwasher	0	X	1
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1



Legal Description

LTS 4 & 5 BLK A

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Tulsa County Records [OK]

Owner Information

GARRISON, ROBERT F AND SHARON J
.
2339 W 51ST ST
TULSA, OK 741077719

Property Address

2339 W 51 ST S

Building No. 1

Account Number 135 R26425922716170

Sub Name: **MAY TERRACE 2ND SUB BLK A**

Lot: **6** Block: **A**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$48854		$4604
Mobile	$0		$0
Total	$63435		$6978
		Exemptions	$1000
School District	T-1A	Net Assessed	$5978
School Levy	$134.51	Estimated Taxes	**$804.1**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4692	20440	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

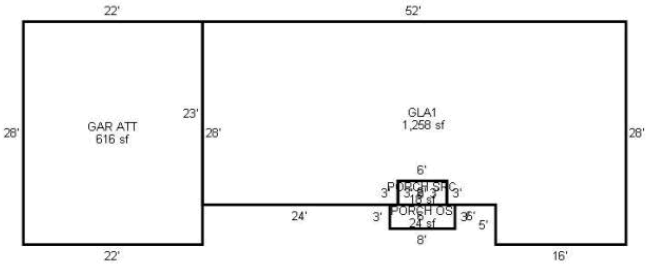
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 616
Porch Porch: Slab Roof Ceil Porch SF 18
Basement N/A Basement SF 0
Year Built **1958** Eff Year Built **1958** Year Remodeled **0**
Square Footage **1258**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	616
Cov Patio 286	0	X	300
Slab Roof Ceil	0	X	18
Standard	0	X	7
Laundry Facility	0	X	1
Dishwasher	0	X	1
Garbage Disposal	0	X	1
Fireplace Single	0	X	1
Range Hood Fan	0	X	1
N/A	0		0



Legal Description

LT 6 BLK A

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Tulsa County Records [OK]

Owner Information

MORDHORST, DAN D REVOCABLE TRUST
.
C/O DAN MORDHORST TTEE PO BOX 4335
TULSA, OK 741590335

Property Address

2331 W 51 ST S

Building No. 1

Account Number 136 R26400922716090

Sub Name: **MAY TERRACE**
Lot: **6** Block: **1**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$16800		$1848
Mobile	$0		$0
Total	$75000		$8250
		Exemptions	$0
School District	T-1A	Net Assessed	$8250
School Levy	$134.51	Estimated Taxes	**$1109.71**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130925	0	0/0	0
Grantor: MORDHORST, STUART			
20080529	0	00000/00000	0
Grantor: MORDHORST, DAN REVOCABLE TRUST			
20080501	68500	00000/00000	43.69
Grantor: BANK OF NEW YORK, TRUSTEE			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Hip/Gable Built Up Rock
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 462
Porch Porch: Slab Roof Ceil Porch SF 16
Basement N/A Basement SF 0
Year Built **1962** Eff Year Built **1962** Year Remodeled **0**
Square Footage **1568**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4033	17568	0	0

Description N/A

Mobile Home Information

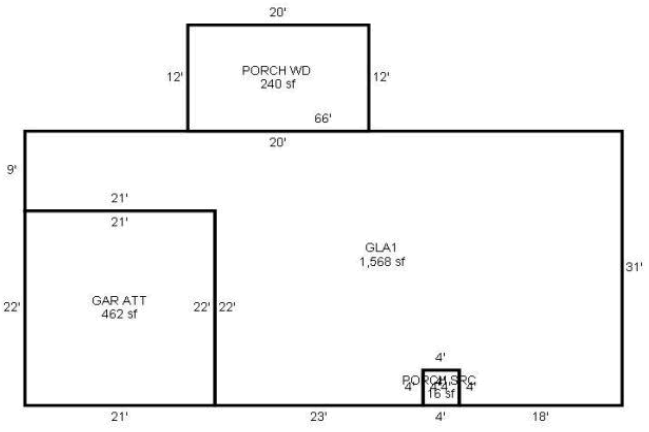
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1568
Attached	0	X	462
Slab Roof Ceil	0	X	16
Standard	0	X	7
Garbage Disposal	0	X	1
Wall Oven	0	X	1
Range Hood Fan	0	X	1
Dishwasher	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1



Legal Description

LT 6 & 7 BLK 1

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Tulsa County Records [OK]

Owner Information

MANESS, JO ANNE
.
2321 W 51 ST
TULSA, OK 74107

Property Address

2321 W 51 ST S

Building No. 1

Account Number 137 R26400922716110

Sub Name: **MAY TERRACE**
Lot: **8 & 9** Block: **1**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14141		$1070
Mobile	$0		$0
Total	$58170		$6399
		Exemptions	$2000
School District	T-1A	Net Assessed	$4399
School Levy	$134.51	Estimated Taxes	**$591.71**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20091105	0	0/0	0
Grantor: MANESS, JO ANNE			
20091105	0	0/0	0
Grantor: MANESS, JO ANNE TRUSTEE JO ANNE MA			
19970626	0	05929/00491	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4919	21426	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

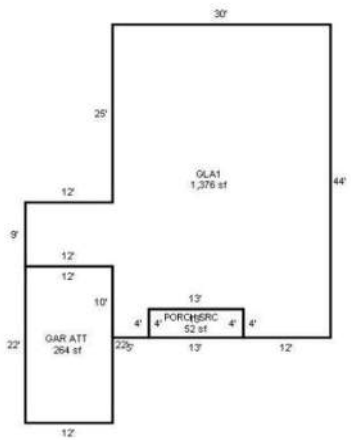
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 52
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1376**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	52
Standard	0	X	7
Garbage Disposal	0	X	1
Laundry Facility	0	X	1
Cook Top	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LTS 8 & 9 BLK 1

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Tulsa County Records [OK]

Owner Information

DAILEY, BETTY R
.
2313 W 51 ST S
TULSA, OK 74107

Property Address

2313 W 51 ST S

Building No. 1

Account Number 138 R26400922716120

Sub Name: **MAY TERRACE**
Lot: **10** Block: **1**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$28520		$1620
Mobile	$0		$0
Total	$37600		$4136
		Exemptions	$2000
School District	T-1A	Net Assessed	$2136
School Levy	$134.51	Estimated Taxes	**$287.31**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000831	0	06410/01992	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair — Interior Finish Drywall
Condition Good
Roof Hip/Gable — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat Cool Air in Heat Ducts — Air N/A
Beds 0 — Baths 1.1 — Total Rooms 0
Garage Garage: Attached — Garage SF 483
Porch Porch: Slab Roof Ceil — Porch SF 40
Basement N/A — Basement SF 0
Year Built **1952** — Eff Year Built **1952** — Year Remodeled **0**
Square Footage **1035**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2017	8784	0	0

Description N/A

Mobile Home Information

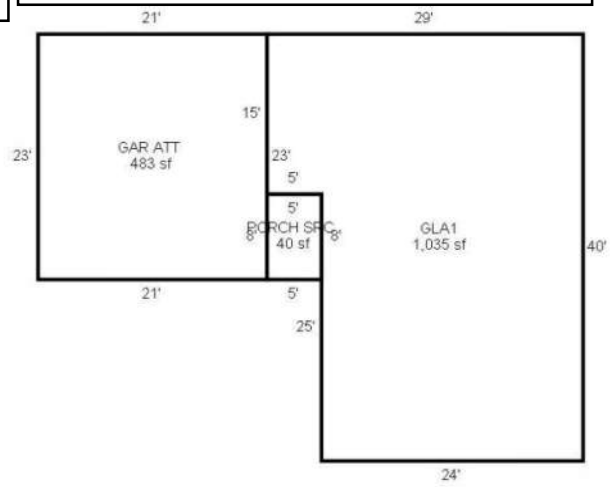
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	483
O Pat 200 Sf	0	X	200
Slab Roof Ceil	0	X	40
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 10 BLK 1

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Tulsa County Records [OK]

Owner Information

SAVAGE, DAVID JAMES AND LAURA LEE
.
3020 W 51ST ST
TULSA, OK 74107

Property Address

3020 W 51 ST S

Building No. 1

Account Number 139 R99234923411840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$5100		$489
Mobile	$0		$0
Total	$70500		$7755
		Exemptions	$1000
School District	T-1A	Net Assessed	$6755
School Levy	$134.51	Estimated Taxes	**$908.62**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.19	8276	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080925	0	0/0	0

Grantor: HENDERSON, LAURA LEE

Sale Date	Sale Price	Book/Page	$/SF
19940601	50000	05637/00751	39.12

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

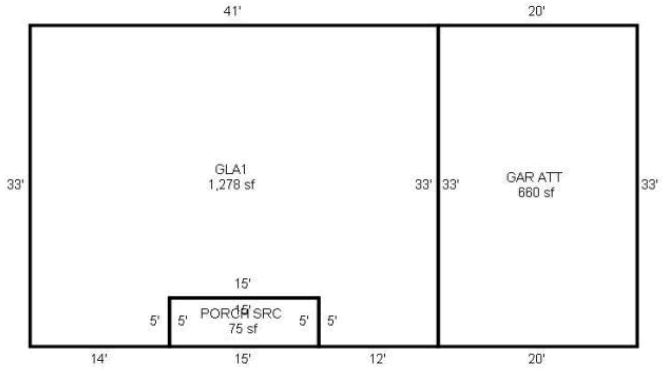
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 660
Porch Porch: Slab Roof Ceil Porch SF 75
Basement N/A Basement SF 0
Year Built **1951** Eff Year Built **1951** Year Remodeled **0**
Square Footage **1278**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	660
Slab Roof Ceil	0	X	75
Standard	0	X	3
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1



Legal Description

S53.75 OF N103.75 E155 W185 OF TR BEG NWC NE NW NW S267 NE TO PT 22E & 265S NWC E238 N265 W260 POB SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

MENDOZA, KYLE M AND REBECCA ANN
.
5109 S 31ST AVE W
TULSA, OK 74107

Property Address

5109 S 31 AV W

Building No. 1

Account Number 140 R99234923411940

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$34600		$3806
Mobile	$0		$0
Total	$40000		$4400
		Exemptions	$0
School District	T-1A	Net Assessed	$4400
School Levy	$134.51	Estimated Taxes	**$591.84**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100701	0	0/0	0
Grantor: MENDOZA, KYLE M			
20081003	40000	0/0	35.21
Grantor: MENDOZA, REBECCA ANN			
20011212	0	06651/02619	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2027	8831	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

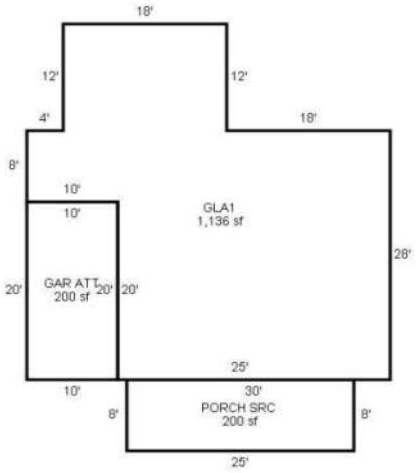
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Avg +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 200
Porch Porch: Slab Roof Ceil Porch SF 200
Basement N/A Basement SF 0
Year Built **1952** Eff Year Built **1952** Year Remodeled **0**
Square Footage **1136**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Op 516 Sf Cpt 80 Sf	0	X	400
Attached	0	X	200
Slab Roof Ceil	0	X	200
Standard	0	X	3
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S53.75 OF N157.5 E155 W185 OF TR BEG NWC TH S267 NE TO PT 22E & 265S NWC E238 N265 W260 POB SEC 34 19 12

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BRASHEAR, KYLE MANNING TRUST
.
C/O JAMES W DUNHAM JR TTEE 15 W 6TH ST STE 2112
TULSA, OK 74119

Property Address

5113 S 31 AV W TULSA 741070000

Building No. 1

Account Number R99234923412040

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$5100		$561
Mobile	$0		$0
Total	$40000		$4400
		Exemptions	$0
School District	T-1A	Net Assessed	$4400
School Levy	$134.51	Estimated Taxes	**$591.84**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1913	8331	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150318	30000	0/0	35.71

Grantor: BASH, CAREY J

Sale Date	Sale Price	Book/Page	$/SF
20100430	40000	0/0	47.62

Grantor: MENDOZA, JOSE M AND REBECCA A

Sale Date	Sale Price	Book/Page	$/SF
20040201	35000	07241/00533	41.67

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

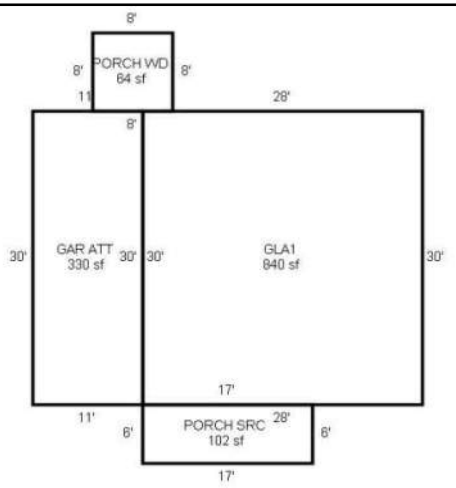
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 330
Porch Porch: Slab Roof Ceil Porch SF 102
Basement N/A Basement SF 0
Year Built **1951** Eff Year Built **1951** Year Remodeled **0**
Square Footage **840**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	330
Slab Roof Ceil	0	X	102
Standard	0	X	5
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

N53.75 OF S107.5 E155 W185 OF TR BEG NWC NE NW NW S267 NE TO PT 22E & 265S NWC E238 N TO NL W260 POB SEC 34 19 12

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

OAKLEY PROPERTIES LLC
.
4235 S 33RD WEST AVE
TULSA, OK 741075904

Property Address

5117 S 31 AV W TULSA 000000000

Building No. 1

Account Number 142 R99234923412140

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$34000		$3740
Mobile	$0		$0
Total	$38100		$4191
		Exemptions	$0
School District	T-1A	Net Assessed	$4191
School Levy	$134.51	Estimated Taxes	**$563.73**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160108	0	0/0	0
Grantor: OAKLEY, SHELBY			
20111118	22000	0/0	21.78
Grantor: BANK OF NEW YORK MELLON			
20110608	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1913	8331	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

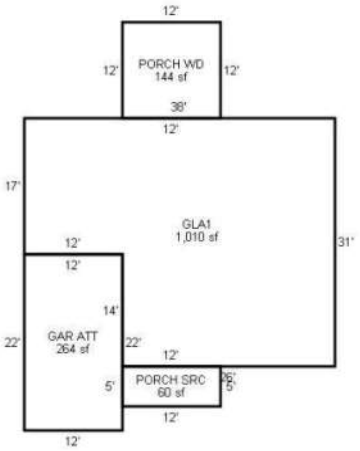
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Avg +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 60
Basement N/A Basement SF 0
Year Built **1953** Eff Year Built **1953** Year Remodeled **0**
Square Footage **1010**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	60
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S53.75 OF E155 W185 OF TR BEG NWC NE NW NW S267 NE TO PT 22E & 265S NWC E238 N265 W260 POB SEC 34 19 12

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

HERMAN, DARRELL
.
3004 W 51ST ST
TULSA, OK 74107

Property Address

3004 W 51 ST S TULSA 741070000

Building No. 1

Account Number 143 R99234923411740

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$8700		$957
Mobile	$0		$0
Total	$93500		$10285
		Exemptions	$0
School District	T-1A	Net Assessed	$10285
School Levy	$134.51	Estimated Taxes	**$1383.44**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20121227	0	0/0	0
Grantor: HUD			
20120913	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20080701	93500	0/0	90.25
Grantor: BRANNUM, LUCILLE MODEAN			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3702	16125	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

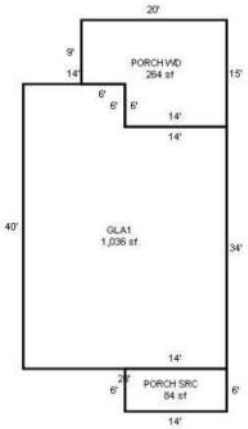
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Very Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 84
Basement N/A Basement SF 0
Year Built **1935** Eff Year Built **1935** Year Remodeled **0**
Square Footage **1036**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	84
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E75 OF TR BEG NWC NE NW NW TH S267.1 NE TO PT 22E & 265S NWC NE NW NW TH ELY238 N265 W260 POB LESS N50 FOR ST SEC 34 19 12 .370AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

SCOTT, ROBERT E & MARILYN H REV TRUST
.
2930 W 51ST ST
TULSA, OK 74107

Property Address

Building No. 0

Account Number 144 R99234923415790

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$9100		$1001
Mobile	$0		$0
Total	$9100		$1001
		Exemptions	$0
School District	T-1A	Net Assessed	$1001
School Levy	$134.51	Estimated Taxes	**$134.64**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160107	0	0/0	0
Grantor: SCOTT, MARILYN H			
20151124	0	0/0	0
Grantor: SCOTT, ROBERT E AND MARILYN H, TRUST			
20021002	0	06836/02172	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3965	17273	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 325W NEC NW NW TH W75 S265.30 E75 N265.30 POB LESS N35 FOR ST SEC 34 19 12 .397AC

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Tulsa County Records [OK]

Owner Information

SCOTT, ROBERT E & MARILYN H REV TRUST
.
2930 W 51ST ST
TULSA, OK 74107

Property Address

2930 W 51 ST S

Building No. 1

Account Number 145 R99234923415840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$8920		$862
Mobile	$0		$0
Total	$75100		$8261
		Exemptions	$1000
School District	T-1A	Net Assessed	$7261
School Levy	$134.51	Estimated Taxes	**$976.68**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5287	23030	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160107	0	0/0	0

Grantor: SCOTT, MARILYN H

Sale Date	Sale Price	Book/Page	$/SF
20151124	0	0/0	0

Grantor: SCOTT, ROBERT E AND MARILYN H, TRUST

Sale Date	Sale Price	Book/Page	$/SF
20021002	0	06836/02172	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

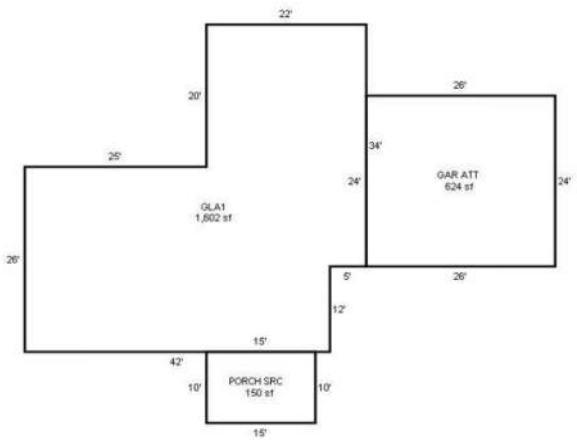
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 624
Porch Porch: Slab Roof Ceil Porch SF 150
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1602**

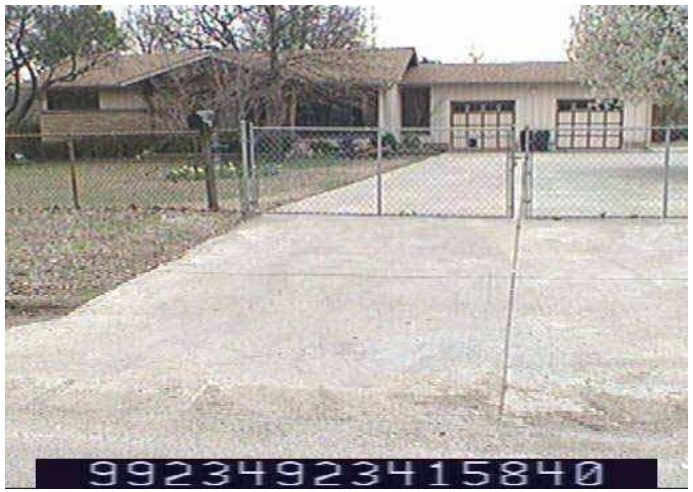
Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	624
Cov Pat 198 Sf	0	X	297
Slab Roof Ceil	0	X	150
Standard	0	X	3
Laundry Facility	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
Fireplace Single	0	X	1
N/A	0		0





Legal Description

BEG 225W NEC NW NW TH W100 S265.3 E100 N265.3 POB LESS N35 FOR ST SEC 34 19 12 .529AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

SCOTT, ROBERT E & MARILYN H REV TRUST
.
2930 W 51ST ST
TULSA, OK 74107

Property Address

2910 W 51 ST S TULSA 741070000

Building No. 1

Account Number 146 R99234923415640

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14501		$1595
Mobile	$0		$0
Total	$76844		$8453
		Exemptions	$0
School District	T-1A	Net Assessed	$8453
School Levy	$134.51	Estimated Taxes	**$1137.01**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160107	0	0/0	0
Grantor: SCOTT, MARILYN H			
20151124	0	0/0	0
Grantor: SCOTT, ROBERT E AND MARILYN H, TRUST			
20081201	0	0/0	0
Grantor: SCOTT, ROBERT N			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.1896	51818	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

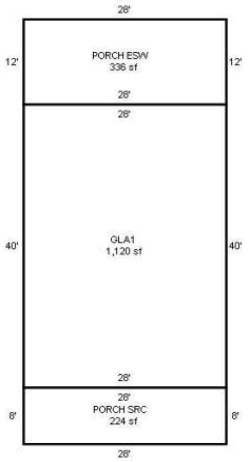
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 560
Basement N/A Basement SF 0
Year Built **1911** Eff Year Built **1911** Year Remodeled **0**
Square Footage **1120**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Encl Solid Wall	0	X	336
Slab Roof Ceil	0	X	224
Standard	0	X	5
Allowance	0	X	1
Laundry Facility	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG NEC NW NW TH W225 S265.3 E225 N265.3 POB LESS N35 FOR ST SEC 34 19 12 1.19ACS

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Tulsa County Records [OK]

Owner Information

TULSA COUNTY
.
500 S DENVER RM 302
TULSA, OK 74103

Property Address

2828 W 51 ST S TULSA 741070000

Building No. 1

Account Number 147 R99234923415240

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$69000		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.528	23000	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

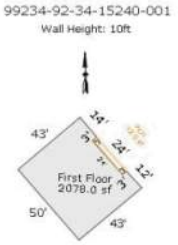
Type Commercial
Style Office Building
Design Library
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **2078**

Commercial Elements

Stories N/A Story Height 00 Perimeter 192
Units 0 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 35S NWC NE NW TH E100 S230 W100 N230 POB SEC 34 19 12

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

ESTES, RONNIE S & ROBIN L
.
2816 W 51ST ST
TULSA, OK 74107

Property Address

2816 W 51 ST S

Building No. 1

Account Number 148 R99234923412240

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15300		$1683
Mobile	$0		$0
Total	$148500		$16335
		Exemptions	$0
School District	T-1A	Net Assessed	$16335
School Levy	$134.51	Estimated Taxes	**$2197.22**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150206	0	0/0	0
Grantor: ESTES, RON S			
20050601	148500	00000/00000	80.66
Grantor: CLAYBROOK, SHARON KAY, TRUSTEE			
19950201	18000	05592/02645	9.78
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.28	55756	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

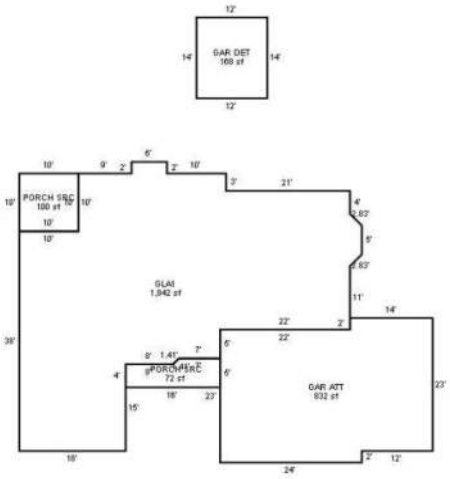
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage N/A Garage SF 1000
Porch N/A Porch SF 171
Basement N/A Basement SF 0
Year Built **1994** Eff Year Built **1994** Year Remodeled **0**
Square Footage **1841**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1841
Attached	0	X	832
Detached	0	X	168
Slab Roof Ceil	0	X	100
Slab Roof Ceil	0	X	71
Standard	0	X	6
Garage Door Opener	0	X	2
Bath Heater	0	X	2
Microwave with Fan	0	X	1
Fireplace Single	0	X	1



Legal Description

BEG 35S & 100E NWC NE NW TH E242 S247 W242 N247 POB LESS E10 & LESS S17 FOR HWY SEC 34 19 12 1.224ACS

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

VTR HILLCREST MC TULSA LLC
C/O ALTUS GROUP US
21001 N TATUM BLVD STE 1630-630
PHOENIX, AZ 85050

Property Address

2728 W 51 ST S TULSA 000000000

Building No. **0**

Account Number **R99234923415140** (149)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$13300	$1463
Mobile	$0	$0
Total	$13300	$1463
	Exemptions	$0
School District T-1A	Net Assessed	$1463
School Levy $134.51	Estimated Taxes	**$196.79**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160420	0	0/0	0
Grantor: HHS PROPERTY CO			
20150730	0	0/0	0
Grantor: AHS TULSA HOLDINGS LLC			
20040812	200000	06383/01014	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.5808	25300	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 35S & 342E NWC NE NW TH E100 S247 W100 N247 POB & TR BEG 35S & 332E NWC NE NW TH E10 S247 W10 N247 POB LESS S17 FOR HWY SEC 34 19 12 .58AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

JOHNSON, GENE A AND WANDA J
.
2714 W 51ST ST
TULSA, OK 74107

Property Address

2714 W 51 ST S

Building No. 1

Account Number 150 R99234923415540

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$99600		$9145
Mobile	$0		$0
Total	$110000		$12100
		Exemptions	$2000
School District	T-1A	Net Assessed	$10100
School Levy	$134.51	Estimated Taxes	**$1358.55**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20101129	110000	0/0	77.03
Grantor: WILLIS, IRA RAY JR.			
20040701	115000	00000/00000	80.53
Grantor: SHARP, JAMES R, SR, TRUSTEE			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.528	23000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

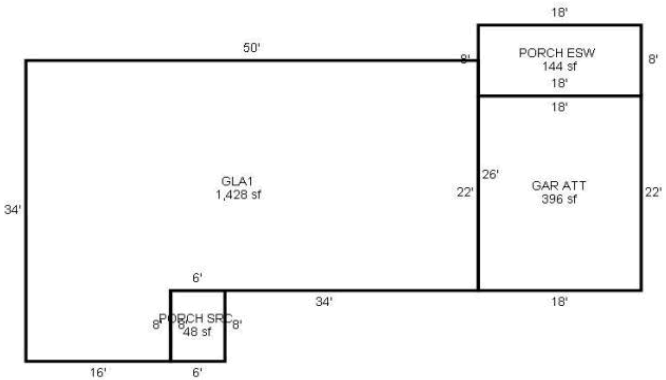
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 396
Porch N/A Porch SF 192
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1428**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	396
Encl Solid Wall	0	X	144
Slab Roof Ceil	0	X	48
Standard	0	X	7
Security/Fire Alarm	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1



99234-92-34-15540 (5/2006)

Legal Description

BEG 35S & 442E NWC NE NW TH S247 E100 N247 W100 POB SEC 34 19 12 LESS 17

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Tulsa County Records [OK]

Owner Information

CROW, KEVIN C AND TAMMY A
.
2708 W 51ST ST
TULSA, OK 74107

Property Address

2708 W 51 ST S

Building No. 1

Account Number 151 R99234923414340

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10400		$1029
Mobile	$0		$0
Total	$90100		$9911
		Exemptions	$1000
School District	T-1A	Net Assessed	$8911
School Levy	$134.51	Estimated Taxes	**$1198.62**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19940501	65500	05628/02171	46.79
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.528	23000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

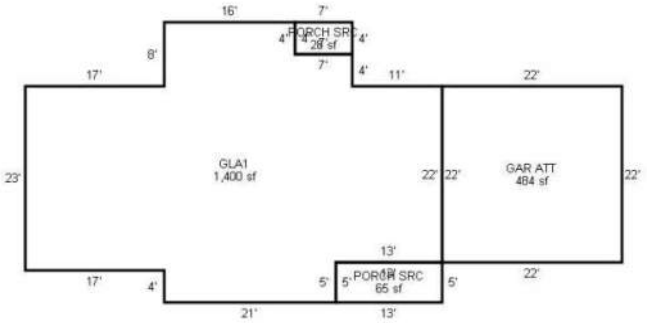
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Avg +
Roof N/A Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 484
Porch Porch: Slab Roof Ceil Porch SF 93
Basement N/A Basement SF 0
Year Built **1968** Eff Year Built **1968** Year Remodeled **0**
Square Footage **1400**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Swimming Pools 525 SF (15x35)	0	X	512
Attached	0	X	484
Att Stg 35 Sf	0	X	100
Slab Roof Ceil	0	X	93
Standard	0	X	6
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1



Legal Description

PRT NE NW BEG 35S & 542E NWC NE NW TH S247 E100 N247 W100 POB LESS S17 THEREOF FOR HWY R/W SEC 34 19 12 .53AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CARR, BAIRD R AND LAURA L
.
2546 W 51ST ST
TULSA, OK 74107

Property Address

2546 W 51 ST S

Building No. 1

Account Number 152 R99234923412440

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10400		$1048
Mobile	$0		$0
Total	$107900		$11869
		Exemptions	$1000
School District	T-1A	Net Assessed	$10869
School Levy	$134.51	Estimated Taxes	**$1461.99**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.528	23000	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20060602	0	00000/00000	0
Grantor: CARR, BAIRD R			
20031001	106000	07166/01195	68.43
Grantor:			
19930601	67500	05511/01350	43.58
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

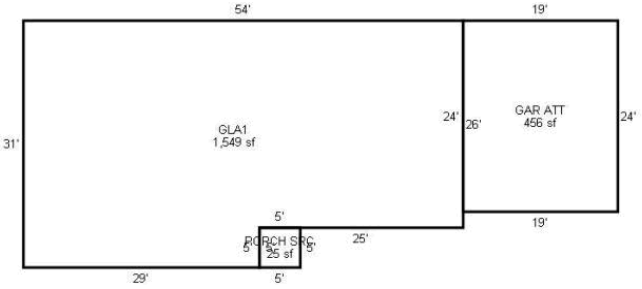
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 456
Porch Porch: Slab Roof Ceil Porch SF 25
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1549**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	456
Open Patio 396 Sf	0	X	400
Slab Roof Ceil	0	X	25
Standard	0	X	6
Laundry Facility	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
Fireplace Single	0	X	1
N/A	0		0



Legal Description

BEG 35S & 642E NWC NE NW TH S230 E100 N230 W100 POB SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

GIVENS, ROCHELLE

.

5301 KELLEYS CIR

STONE MOUNTAIN, GA 30088

Property Address

2542 W 51 ST S

Building No. 1

Account Number 153 R99234923414440

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10700		$1177
Mobile	$0		$0
Total	$129000		$14190
		Exemptions	$0
School District	T-1A	Net Assessed	$14190
School Levy	$134.51	Estimated Taxes	**$1908.7**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160219	73000	0/0	45.85

Grantor: FNMA

Sale Date	Sale Price	Book/Page	$/SF
20151203	0	0/0	0

Grantor: TULSA COUNTY SHERIFF

Sale Date	Sale Price	Book/Page	$/SF
20060601	129000	00000/00000	81.03

Grantor:

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Average Plus Interior Finish Drywall

Condition Very Good

Roof Gable/Hip Composition Shingle

Exterior Wall FrameSiding/MasonryVeneer N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1.1 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1950** Eff Year Built **1950** Year Remodeled **0**

Square Footage **1592**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5518	24035	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

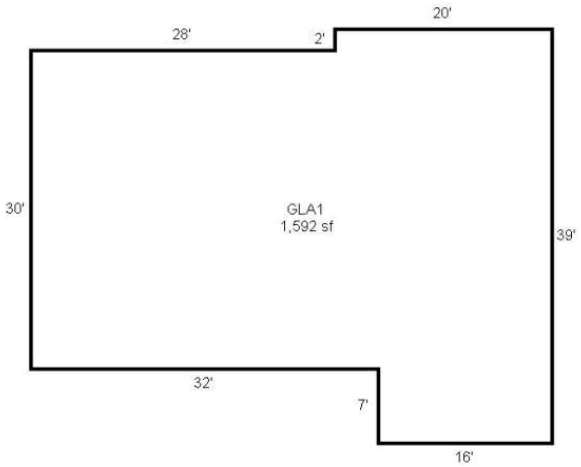
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
O P 140 Sf	0	X	100
Standard	0	X	7
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
Fireplace Single	0	X	1
N/A	0		0
N/A	0		0



Legal Description

BEG 35S & 846.5E NWC NE NW TH S238 W104.5 N238 E104.5 POB LESS S8 FOR HWY SEC 34 19 12 .552AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

HERNANDEZ, ANA SANCHEZ &
FRANCISCO OCTAVIANO DE LOS SANTOS
2524 W 51ST ST
TULSA, OK 74107

Property Address

2524 W 51 ST S TULSA 741070000

Building No. 1

Account Number 154 R99234923414940

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$87800		$9658
Mobile	$0		$0
Total	$101000		$11110
		Exemptions	$0
School District	T-1A	Net Assessed	$11110
School Levy	$134.51	Estimated Taxes	**$1494.41**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140602	85000	0/0	43.43
Grantor: WEBB-HOLMES LLC			
20140224	65000	0/0	33.21
Grantor: HELM, TRACY			
20131220	0	0/0	0
Grantor: FENNELL, ANGELA			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.8712	37950	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

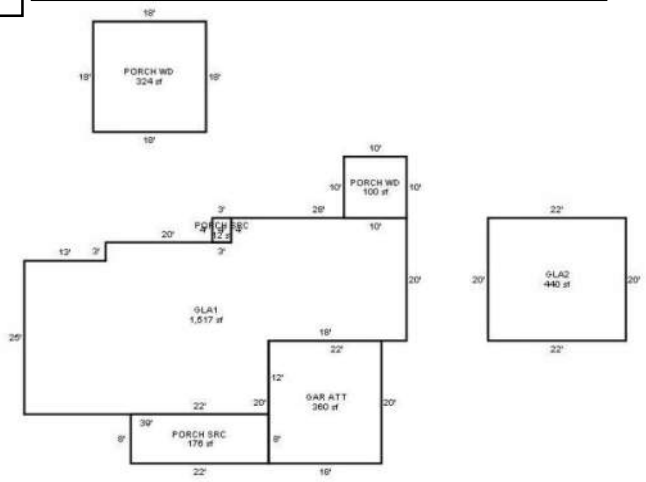
Type Residential
Style Single Family Residential *CODE
Design 2 Story
Quality Average Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2.1 Total Rooms 0
Garage Garage: Attached Garage SF 360
Porch Porch: Slab Roof Ceil Porch SF 188
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1957**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Swimming Pools 650 SF (18x36)	0	X	576
Attached	0	X	360
Open Patio 240 Sf	0	X	200
Slab Roof Ceil	0	X	188
Standard	0	X	10
Allowance	0	X	1
Fireplace Average 1 Story	0	X	1
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0



Legal Description

BEG 846.5E NWC NE NW TH S265 E165 N265 W165 POB LESS N35 FOR ST SEC 34 19 12 .871AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCCLANAHAN, RONALD E AND
STEPHANIE E
2520 W 51ST ST
TULSA, OK 74107

Property Address

2520 W 51 ST S

Building No. 1

Account Number 155 R99234923411640

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10700		$1051
Mobile	$0		$0
Total	$84600		$9306
		Exemptions	$1000
School District	T-1A	Net Assessed	$8306
School Levy	$134.51	Estimated Taxes	**$1117.24**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19971015	0	05968/00487	0
Grantor:			
19950801	60000	05737/00061	33.9
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.551	24000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

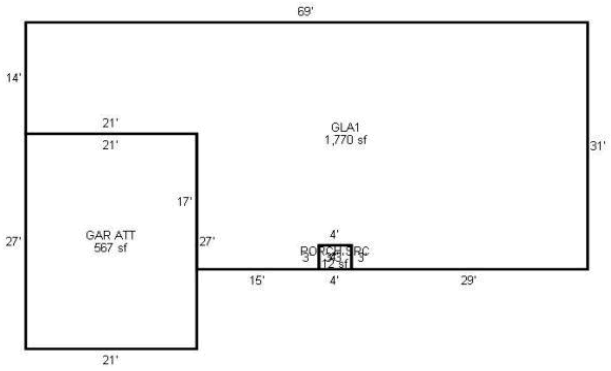
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 567
Porch Porch: Slab Roof Ceil Porch SF 12
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1770**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	567
Slab Roof Ceil	0	X	12
Standard	0	X	6
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Cook Top	0	X	1
Fireplace Single	0	X	1



Legal Description

BEG 213.5W & 25S NEC NE NW TH S240 W100 N240 E100 POB SEC 34 19 12

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

PATTISON, RONALD L AND
PHYLLIS GAYLE
2516 W 51ST ST
TULSA, OK 74107

Property Address

2516 W 51 ST S

Building No. 1

Account Number 156 R99234923411540

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10700		$1055
Mobile	$0		$0
Total	$87600		$9636
		Exemptions	$1000
School District	T-1A	Net Assessed	$8636
School Levy	$134.51	Estimated Taxes	**$1161.63**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20060214	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.551	24000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

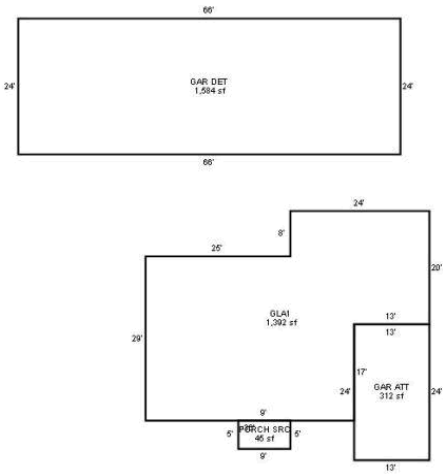
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 1896
Porch Porch: Slab Roof Ceil Porch SF 45
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1392**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	1584
Attached	0	X	312
Slab Roof Ceil	0	X	45
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 113.5W & 25S NEC NE NW TH S240 W100 N240 E100 POB SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

PONDEROSA HOLDINGS LLC
.
101042 S 4450 RD
GORE, OK 74435

Property Address

TULSA 741070000

Building No. **0**

Account Number **157** **R99234923415340**

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14400		$1584
Mobile	$0		$0
Total	$14400		$1584
		Exemptions	$0
School District	T-1A	Net Assessed	$1584
School Levy	$134.51	Estimated Taxes	**$213.06**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140903	1000500	0/0	0

Grantor: SHERWOOD-THS LLC

Sale Date	Sale Price	Book/Page	$/SF
20120629	0	0/0	0

Grantor: TOTAL HEALTHCARE SYSTEMS LLC

Sale Date	Sale Price	Book/Page	$/SF
20120323	0	0/0	0

Grantor: CPC-SHERWOOD MANOR INC

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4409	19205	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 35S&30W NEC NE NW TH S230 W83.50 N230 E83.50 POB SEC 34 19 12 0.441AC

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **158** **R99234923415415**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.1584	6900	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19951109	0	05759/02142	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 35S NEC NE NW TH S230 W30 N230 E30 POB SEC 34 19 12 0.159AC

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Tulsa County Records [OK]

Owner Information

PONDEROSA HOLDINGS LLC
.
101042 S 4450 RD
GORE, OK 74435

Property Address

2416 W 51 ST S TULSA 741070000

Building No. 1

Account Number 159 R99234923405640

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$184300		$20273
Mobile	$0		$0
Total	$1447400		$159214
		Exemptions	$0
School District	T-1A	Net Assessed	$159214
School Levy	$134.51	Estimated Taxes	**$21415.88**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140903	1000500	0/0	45.95

Grantor: SHERWOOD-THS LLC

Sale Date	Sale Price	Book/Page	$/SF
20120629	0	0/0	0

Grantor: TOTAL HEALTHCARE SYSTEMS LLC

Sale Date	Sale Price	Book/Page	$/SF
20120323	0	0/0	0

Grantor: CPC-SHERWOOD MANOR INC

Building Elements

Type Commercial
Style ConvIsnt Hosp Nursing Home
Design ConvIsnt Hosp Nursing Home
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1963** Eff Year Built **1990** Year Remodeled **1990**
Square Footage **21772**

Commercial Elements

Stories N/A Story Height 00 Perimeter 1182
Units 102 Rent 000
Class Description Wood Frame

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.1156	92155	0	0

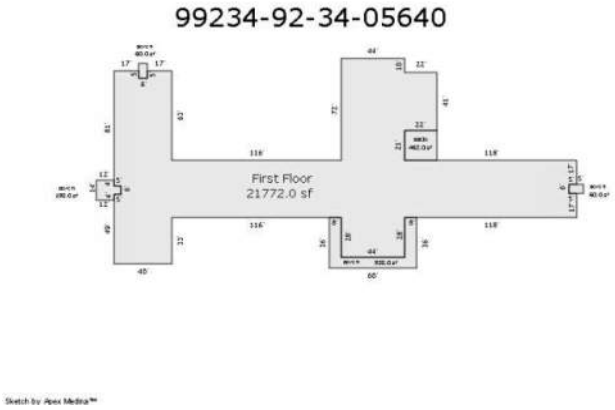
Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	9316
Rp1	0	X	1708
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W400 N/2 N/2 NE LYING N OF SKELLY BY-PASS LESS N35 FOR ST SEC 34 19 12 2.116ACS

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

2404 W 51 ST S TULSA 741070000

Building No. 1

Account Number 160 R99234923404540

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$192030		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.9921	43218	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Fire Station Staffed
Design Fire Station Staffed
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **7251**

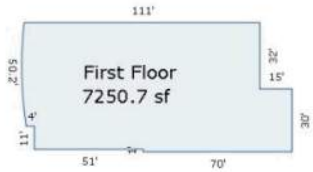
Commercial Elements

Stories N/A Story Height 00 Perimeter 375
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	13678
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Firestation #26
99234-92-34-04540



Legal Description

BEG 400E & 35S NWC NE TH S230 TO NL HWY TH ELY10 N15 ELY190 N TO PT 35S NL NE TH W200 POB SEC 34 19 12 .992AC

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Tulsa County Records [OK]

Owner Information

TULSA CITY COUNTY
LIBRARY COMMISSION
400 CIVIC CENTER
TULSA, OK 741033830

Property Address

2224 W 51 ST S TULSA 741070000

Building No. 1

Account Number: 161 R99234923405390

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$318300		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19770908	0	04282/02168	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.4361	106116	0	0

Description: N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

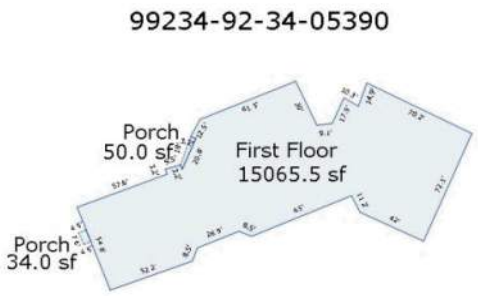
Type: Commercial
Style: Library
Design: Library
Quality: Average Interior Finish: N/A
Condition: Avg
Roof: Flat N/A
Exterior Wall: N/A N/A
Foundation: N/A Fireplace: N/A
Heat: Complete HVAC Air: N/A
Beds: 0 Baths: 0 Total Rooms: 0
Garage: N/A Garage SF: 0
Porch: N/A Porch SF: 0
Basement: N/A Basement SF: 0
Year Built: **1970** Eff Year Built: **1970** Year Remodeled: **0**
Square Footage: **15066**

Commercial Elements

Stories: N/A Story Height: 00 Perimeter: 664
Units: 0 Rent: 000
Class Description: Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	34034
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W500 OF TR BEG 600E NWC NE TH E1070.45 S50 E265 S90 SWLY92.41 W404.85 SWLY601 W260.18 N250 POB LESS N35 FOR ST SEC 34 19 12 2.436ACS

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Tulsa County Records [OK]

Owner Information

CARBONDALE ASSEMBLY
OF GOD CHURCH
2135 W 51ST ST
TULSA, OK 74107

Property Address

2020 W 51 ST S TULSA 741070000

Building No. 0

Account Number 162 R06636923405000

Sub Name: CARBONDALE ASSEMBLY OF GOD PARKIN

Lot: 1 Block: 1

Area Name: TULSA CITY

Section 34 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$141800		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	3.8299	166832	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 N E 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 163 R99234923404840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$405		$45
Mobile	$0		$0
Total	$405		$45
		Exemptions	$0
School District	T-1A	Net Assessed	$45
School Levy	$134.51	Estimated Taxes	**$6.05**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19640708	0	03467/00669	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	5.827	253826	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE BEG NEC NE TH S50 W560.06 SE91.64 SE94.83 E240 NE183 E TO PT ON EL NE TH S145 W2595.51 N17 E360 N15 E460.18 NE601 E404.83 NE92.41 N90 W265 N50 E975.06 POB & E65 S87 N137 NE S

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
DEPT OF HWY R/W DIV
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **164** **R06650923400110**

Sub Name: **CARBONDALE SECOND ADDN**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$289		$32
Mobile	$0		$0
Total	$289		$32
		Exemptions	$0
School District	T-1A	Net Assessed	$32
School Levy	$134.51	Estimated Taxes	**$4.3**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.324	101235	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 5 & 18 & ALL LTS 6 THRU 17 & N29 VAC ST ADJ ON S BEG SWC LT 5 TH N35 SE TO EL LT 5 TH N5 SE TO EL LT 18 20N SECR TH S332 E30 S29 W330 N29 E30 N312 POB BLK 2

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF HWYS R/W DIV
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 165 R99234923411810

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1513		$166
Mobile	$0		$0
Total	$1513		$166
		Exemptions	$0
School District	T-1A	Net Assessed	$166
School Levy	$134.51	Estimated Taxes	**$22.33**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19700630	0	03933/01134	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	12.1373	528700	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG SWC NE NW NW TH E420.01 NE373.24 NE123.57 E778.06 S20 E313.92 TO EL NW TH N234.99 W TO PT 22E & 265S NWC NE NW NW SW TO PT 277.15 NWC NE NW NW TH S363.90 POB SEC 34 19 1

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 N E 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

166

Account Number R99234923404040

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2394		$263
Mobile	$0		$0
Total	$2394		$263
		Exemptions	$0
School District	T-1A	Net Assessed	$263
School Levy	$134.51	Estimated Taxes	**$35.38**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	15.97	695654	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 265S NWC NW NE TH S192 E173.05 S2 E236.95 S6 E123.05 S9 ELY480.99 SE317.7 TO PT 549.86S NWC NE NE TH ELY50 TO PT 550S NEC NW NE SE286.61 E994.55 N TO PT 282S NEC NE W2595.5 N

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Tulsa County Records [OK]

Owner Information

PEOPLES BANK
.
445 S LEWIS
TULSA, OK 74105

Property Address

5151 S 33 AV W TULSA 000000000

Building No. 1

Account Number 167 R32410923417200

Sub Name: **PEOPLES BANK CARBONDALE**
Lot: **1** Block: **1**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$309300		$34023
Mobile	$0		$0
Total	$1756000		$193160
		Exemptions	$0
School District	T-1A	Net Assessed	$193160
School Levy	$134.51	Estimated Taxes	**$25981.95**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial
Style Bank
Design Bank
Quality Average — Interior Finish N/A
Condition Good
Roof Flat — N/A
Exterior Wall N/A — N/A
Foundation N/A — Fireplace N/A
Heat Package Unit — Air N/A
Beds 0 — Baths 0 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 0
Basement N/A — Basement SF 0
Year Built **2009** — Eff Year Built **2009** — Year Remodeled **0**
Square Footage **11604**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.7749	77315	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. — LxW 0 x 0

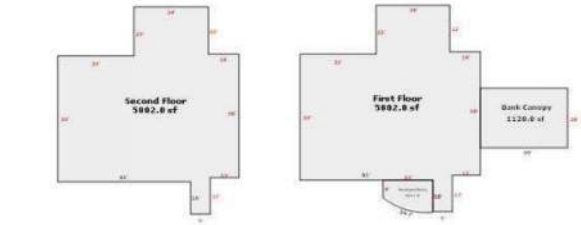
Commercial Elements

Stories N/A — Story Height 00 — Perimeter 360
Units 0 — Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Bank Service Canopy Avg	0	X	1120
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

32410-92-34-17200



Legal Description

LOT 1 BLOCK 1

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Tulsa County Records [OK]

Owner Information

TULSA INVESTMENT GROUP IV LP

.

C/O BURKE & ASSOC LLC 3336 E 32ND ST STE 217

TULSA, OK 741354442

Property Address

3232 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 168 R19780923400258

Sub Name: HYDE ADDN AMD

Lot: Block:

Area Name: TULSA CITY

Section 34 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$206600		$22726
Mobile	$0		$0
Total	$285000		$31350
		Exemptions	$0
School District	T-1A	Net Assessed	$31350
School Levy	$134.51	Estimated Taxes	**$4216.89**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030304	285000	06969/02650	108.61
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.7198	31354	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type	Commercial		
Style	Restaurant		
Design	Restaurant		
Quality	Average	Interior Finish	N/A
Condition	Avg +		
Roof	Mansard		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Complete HVAC	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1990**	Eff Year Built **1990**	Year Remodeled **0**
Square Footage	**2624**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 228
Units	1	Rent 000	
Class Description	Wood Frame		

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	23129
Yard Paving Concrete Good	0	X	1575
Canopies- stores, comm Wood Avg	0	X	845
Canopy - CM Drive Under Avg	0	X	400
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

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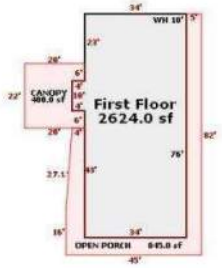

Legal Description

PRT BLK 1 BEG NWC TH S114.75 SE107.41 E102.13 N128.81 W208.72 POB & S29 VAC STREET ADJ ON N

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

GOODSON, CHARLES M & KAREN L
.
2940 W SKELLY DR
TULSA, OK 74017

Property Address

2940 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 169 R19780923400256

Sub Name: **HYDE ADDN AMD**
Lot: Block: **1**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$120100		$13211
Mobile	$0		$0
Total	$246500		$27115
		Exemptions	$0
School District	T-1A	Net Assessed	$27115
School Levy	$134.51	Estimated Taxes	**$3647.24**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.6486	71813	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100730	0	0/0	0

Grantor: KIRKPATRICK, CLIFFORD

Sale Date	Sale Price	Book/Page	$/SF
20100730	315000	0/0	83.87

Grantor: KIRKPATRICK, BARBARA & RONALD &

Sale Date	Sale Price	Book/Page	$/SF
19980706	0	06074/00966	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Retail Store
Design Service Garage
Quality Average Interior Finish N/A
Condition Avg +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Forced Air Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1990** Eff Year Built **1990** Year Remodeled **0**
Square Footage **3756**

Commercial Elements

Stories N/A Story Height 00 Perimeter 356
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt, medium trucks	0	X	9000
Canopy - Gas Station Steel Avg	0	X	1080
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

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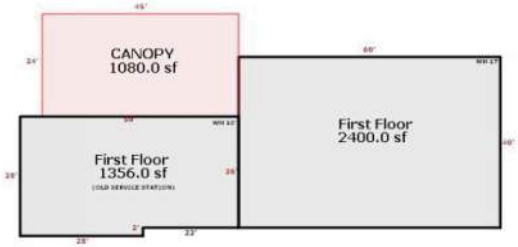


19780-92-34-00256-001 (10/2010)

Legal Description

E200 W408.72 LT 1 & S29 E101.28 VAC 52ND ST ADJ ON N BLK 1 & W98.81 S29 W260 NE NW NW SEC 34 19 12 .066ACS

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

GOODSON, CHARLES M & KAREN L
.
2940 W SKELLY DR
TULSA, OK 74017

Property Address

2940 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 170 R19780923400254

Sub Name: **HYDE ADDN AMD**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$68300		$7513
Mobile	$0		$0
Total	$68500		$7535
		Exemptions	$0
School District	T-1A	Net Assessed	$7535
School Levy	$134.51	Estimated Taxes	**$1013.53**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100730	0	0/0	0

Grantor: KIRKPATRICK, CLIFFORD

Sale Date	Sale Price	Book/Page	$/SF
20100730	315000	0/0	315000

Grantor: KIRKPATRICK, BARBARA & RONALD &

Sale Date	Sale Price	Book/Page	$/SF
19980706	0	06074/00966	0

Grantor:

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.8246	35920	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Commercial Improvement *CODE
Design Miscellaneous-Comm OB
Quality None Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **1**

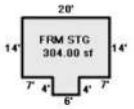
Commercial Elements

Stories N/A Story Height 00 Perimeter 76
Units 0 Rent 000
Class Description None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Storage Buildings Fair Quality	0	X	304
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

19780-92-34-00254
2940 W SKELLY DR S



Legal Description

E100 W508.72 LT 1 BLK 1 & E100 W198.81 S29 W260 NE NW NW SEC 34 19 12 .067ACS

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

EBERTH INVESTMENTS LLC
.
PO BOX 63
JENKS, OK 74037

Property Address

2930 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 171 R19780923400251

Sub Name: **HYDE ADDN AMD**
Lot: **1** Block: **1**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$99900		$10989
Mobile	$0		$0
Total	$275000		$30250
		Exemptions	$0
School District	T-1A	Net Assessed	$30250
School Levy	$134.51	Estimated Taxes	**$4068.93**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150728	275000	0/0	63.28

Grantor: FLATIRON INVESTMENT CO

Sale Date	Sale Price	Book/Page	$/SF
20080814	320000	0/0	73.63

Grantor: WILLIS, DERRYL J TRUSTEES DERRYL J W

Sale Date	Sale Price	Book/Page	$/SF
20060807	225000	00000/00000	51.77

Grantor: PRICE, DALE F

Building Elements

Type Commercial
Style Mixed Retail w Res Units
Design Mixed Retail w Res Units
Quality Average Plus Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1964** Eff Year Built **1973** Year Remodeled **2000**
Square Footage **4346**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	4.02	175111	0	0

Description N/A

Mobile Home Information

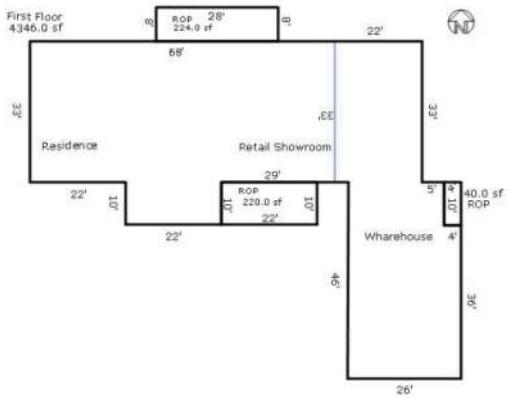
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 372
Units 0 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Good	0	X	5360
Covered Patio Wood	0	X	454
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 1 LESS W508.72 BLK 1 & E61.19 S29 W260 NE NW NW SEC 34 19 12 .041ACS

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Tulsa County Records [OK]

Owner Information

OGLESBY, RICHARD B AND TERESA L
.
2828 W SKELLY DR
TULSA, OK 74107

Property Address

2828 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 172 R99234923414240

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$30100		$3311
Mobile	$0		$0
Total	$104900		$11539
		Exemptions	$0
School District	T-1A	Net Assessed	$11539
School Levy	$134.51	Estimated Taxes	**$1552.11**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19950317	0	05699/02134	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.5862	25537	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

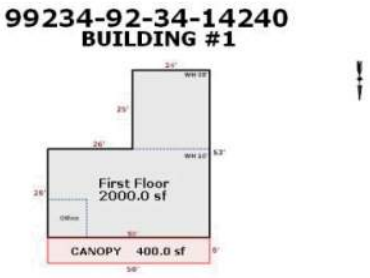
Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Forced Air Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **2000**

Commercial Elements

Stories N/A Story Height 00 Perimeter 206
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Canopies- stores, comm Steel Low	0	X	400
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 544.5S NWC NE NW TH S212.5 E110 N251.8 SW116.64 POB SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

OGLESBY, RICHARD B AND TERESA L
.
2828 W SKELLY DR
TULSA, OK 74107

Property Address

2820 W SKELLY DR S TULSA 000000000

Building No. **0**

Account Number **173** **R99234923413890**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$20200		$2222
Mobile	$0		$0
Total	$20200		$2222
		Exemptions	$0
School District	T-1A	Net Assessed	$2222
School Levy	$134.51	Estimated Taxes	**$298.88**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.9516	41452	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19950317	0	05699/02134	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE NW BEG 761.87S & 110E NWC NE NW TH N251.83 NE123.59 E33.98 S277 W155.15 POB SEC 34 19 12 .95AC

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Tulsa County Records [OK]

Owner Information

KRAMER LLC

.

2702 W SKELLY DR

TULSA, OK 74107

Property Address

2702 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 174 R99234923413990

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$170000		$18700
Mobile	$0		$0
Total	$195000		$21450
		Exemptions	$0
School District	T-1A	Net Assessed	$21450
School Levy	$134.51	Estimated Taxes	**$2885.24**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20011203	195000	06646/02094	44.32
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial

Style Storage Warehouse

Design Storage Warehouse

Quality Average Interior Finish N/A

Condition Avg

Roof Gable N/A

Exterior Wall N/A N/A

Foundation N/A Fireplace N/A

Heat Package Unit Air N/A

Beds 0 Baths 0 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1996** Eff Year Built **1996** Year Remodeled **0**

Square Footage **4400**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.1175	48680	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 480

Units 1 Rent 000

Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	28000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
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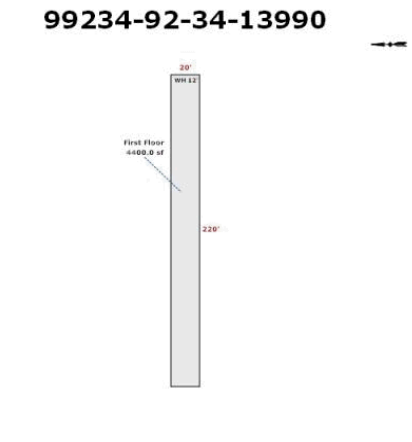
N/A	0		0



Legal Description

BEG 488.96S & 1588.41E NWC NW TH E283.66 S171.23 W283.66 N172 POB SEC 34 19 12 1.118ACS

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Tulsa County Records [OK]

Owner Information

VANDERPOOL FAMILY TRUST
.
4815 S LAWTON
TULSA, OK 74107

Property Address

TULSA 000000000

Building No. **0**

Account Number **R46415923413460** (175)

Sub Name: **WEST SKELLY DRIVE INDUSTRIAL COMPLE**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$27300		$3003
Mobile	$0		$0
Total	$27300		$3003
		Exemptions	$0
School District	T-1A	Net Assessed	$3003
School Levy	$134.51	Estimated Taxes	**$403.93**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.2948	12842	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20081211	0	0/0	0

Grantor: WEAVER, DEBBIE

Sale Date	Sale Price	Book/Page	$/SF
20081211	0	0/0	0

Grantor: VANDERPOOL, EMMA RUTH

Sale Date	Sale Price	Book/Page	$/SF
20030110	0	06913/00613	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 1 BEG APR 665.24N & APR 217.61W SECR LT 1 TH W APR 75 N171.23 E APR 75 S APR 171.23 POB BLK 1

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Tulsa County Records [OK]

Owner Information

SHORES, ORVILLE DUNCAN-DONNIE
LLC
2626 W SKELLY DR
TULSA, OK 74107

Property Address

2628 W SKELLY DR S TULSA 000000000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$61400	$6754
Mobile	$0	$0
Total	$61400	$6754
	Exemptions	$0
School District T-1A	Net Assessed	$6754
School Levy $134.51	Estimated Taxes	**$908.48**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	8.8907	387281	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. **0**

Account Number **R46415923412500**

176

Sub Name: **WEST SKELLY DRIVE INDUSTRIAL COMPLE**

Lot: **1** Block: **1**

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000420	0	06354/00454	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Legal Description

LT 1 LESS BEG SECR TH N759.47 W100 N77 W192.74 S171.23 E APR 75 S APR 665.87 E217.60 POB BLK 1

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

VANDERPOOL FAMILY TRUST
.
4815 S LAWTON
TULSA, OK 74107

Property Address

TULSA 000000000

Building No. **0**

Account Number **R46415923413870** (177)

Sub Name: **WEST SKELLY DRIVE INDUSTRIAL COMPLE**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$39500		$4345
Mobile	$0		$0
Total	$39500		$4345
		Exemptions	$0
School District	T-1A	Net Assessed	$4345
School Levy	$134.51	Estimated Taxes	**$584.45**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.6048	26344	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20081211	0	0/0	0

Grantor: WEAVER, DEBBIE

Sale Date	Sale Price	Book/Page	$/SF
20081211	0	0/0	0

Grantor: VANDERPOOL, EMMA RUTH

Sale Date	Sale Price	Book/Page	$/SF
20030110	0	06913/00613	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 1 BEG 759.47N SECR LT 1 TH W100 N77 W APR 97.74 S APR 171.23 E APR 197.61 N94.23 POB BLK 1

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Tulsa County Records [OK]

Owner Information

VANDERPOOL, RUTH ANDNANCY
.
4815 S LAWTON AVE
TULSA, OK 74107

Property Address

2614 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number R99234923414140 (178)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$11600	$1276
Mobile	$0	$0
Total	$45000	$4950
	Exemptions	$0
School District T-1A	Net Assessed	$4950
School Levy $134.51	Estimated Taxes	**$665.82**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080219	0	00000/00000	0
Grantor: VANDERPOOL, RUTH			
20000124	73000	06320/02452	37.55
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.1768	7700	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Retail Store
Design Retail Store
Quality Fair Plus Interior Finish N/A
Condition Fair +
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1944**

Commercial Elements

Stories N/A Story Height 00 Perimeter 308
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	6000
Canopies- stores, comm Wood Low	0	X	360
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 480S & 751.5E NWC NE NW TH E100 S77 W100 N77 POB SEC 34 19 12 .176AC

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Tulsa County Records [OK]

Owner Information

SHORES, ORVILLE DUNCAN-DONNIE
LLC
2626 W SKELLY DR
TULSA, OK 74107

Property Address

2226 W SKELLY DR S TULSA 741070000

Building No. 1

Account Number 179 R46415923413480

Sub Name: **WEST SKELLY DRIVE INDUSTRIAL COMPLE**

Lot: **1** Block: **1**

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$99400		$10934
Mobile	$0		$0
Total	$126900		$13959
		Exemptions	$0
School District	T-1A	Net Assessed	$13959
School Levy	$134.51	Estimated Taxes	**$1877.63**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	3.4122	148637	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000420	0	06354/00454	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Office Building
Design Office Building
Quality Fair Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1975** Eff Year Built **1975** Year Remodeled **0**
Square Footage **1456**

Commercial Elements

Stories N/A Story Height 00 Perimeter 160
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 1 BEG SECR LT 1 TH N APR 665.24 W APR 197.61 N APR 171.23 W20 S837.10 E217.60 POB BLK 1

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Tulsa County Records [OK]

Owner Information

CHOJO DEVELOPMENT LLC
.
3925 E 54TH ST
TULSA, OK 74135

Property Address

2604 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 180 R99234923414540

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$71300		$7843
Mobile	$0		$0
Total	$190000		$20900
		Exemptions	$0
School District	T-1A	Net Assessed	$20900
School Levy	$134.51	Estimated Taxes	**$2811.26**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20121231	190000	0/0	18.06
Grantor: ONB BANK & TRUST CO			
20120606	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20020722	241500	06822/00078	22.95
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg +
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1958** Eff Year Built **1958** Year Remodeled **0**
Square Footage **10523**

Commercial Elements

Stories N/A Story Height 00 Perimeter 590
Units 1 Rent 000
Class Description Wood Frame

Land Information

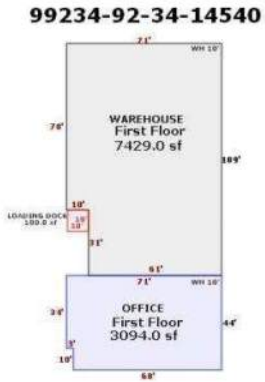
Land Use: Commercial

Lots	Acres	SF	Width	depth
0	3.1818	138600	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	14300
Service Garage Shed - low	0	X	2620
Loading Dock - Steel Framed	0	X	100
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 480S & 479.42W NEC NE NW TH S840 E165 N840 W165 POB SEC 34 19 12 3.182ACS

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Tulsa County Records [OK]

Owner Information

WHEELER, LANCE A AND STACY L TRUSTEES
WHEELER FAMILY REV. TR.
5922 E. SILVER CITY RIDGE RD.
TUTTLE, OK 73089

Property Address

2600 W SKELLY DR S TULSA 000000000

Building No. **0**

181 **Account Number** **R99234923410940**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$22900	$2519
Mobile	$0	$0
Total	$22900	$2519
	Exemptions	$0
School District T-1A	Net Assessed	$2519
School Levy $134.51	Estimated Taxes	**$338.83**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.3514	15307	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20081009	218000	0/0	0

Grantor: HARDISON, JOHN CHARLES HARDISON RE

Sale Date	Sale Price	Book/Page	$/SF
20020208	70000	06696/01454	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 500S & 213.5W NEC NE NW TH S151.24 SW100 N155 E100 POB SEC 34 19 12 .351AC

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Tulsa County Records [OK]

Owner Information

WHEELER, LANCE A AND STACY L TRUSTEES
WHEELER FAMILY REV TR.
5922 E SILVER CITY RIDGE RD.
TUTTLE, OK 73089

Property Address

2510 W SKELLY DR S TULSA 000000000

Building No. 1 | 182 | Account Number R99234923411140

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$49700		$5467
Mobile	$0		$0
Total	$195100		$21461
		Exemptions	$0
School District	T-1A	Net Assessed	$21461
School Levy	$134.51	Estimated Taxes	**$2886.72**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20081009	218000	0/0	64.8
Grantor: HARDISON, JOHN CHARLES HARDISON RE			
20000823	0	06406/01094	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.7606	33130	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

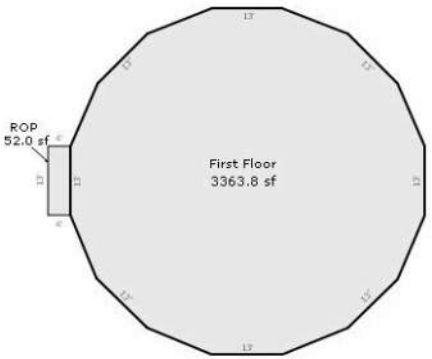
Type Commercial
Style Office Building
Design Office Building
Quality Average Plus Interior Finish N/A
Condition Avg +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Warm and Cool Air Zone Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **3364**

Commercial Elements

Stories N/A Story Height 00 Perimeter 192
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks hig	0	X	3500
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Sketch by Apex Medina™

Legal Description

BEG 500S NEC NE NW TH W213.5 S151.24 NE107.11 SE110.08 N175 POB SEC 34 19 12 .761AC

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Tulsa County Records [OK]

Owner Information

ALBERT, ROMAN M JR AND
VIRGINIA K
909 W 23RD ST
TULSA, OK 74107

Property Address

TULSA 000000000

Building No. **0**

Account Number **R99234923450280** (183)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$66100	$7271
Mobile	$0	$0
Total	$66100	$7271
	Exemptions	$0
School District T-1A	Net Assessed	$7271
School Levy $134.51	Estimated Taxes	**$978.02**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	4.0543	176604	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070108	27000	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 675S NEC NE NW TH NW110.08 SW207.11 S665 E100 N150 E213.5 N495 POB SEC 34 19 12 4.054ACS

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Tulsa County Records [OK]

Owner Information

MDM INVESTMENTS
.
820 W SKELLY DR
TULSA, OK 74107

Property Address

2442 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 184 R99234923409040

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$135600		$14916
Mobile	$0		$0
Total	$204800		$22528
		Exemptions	$0
School District	T-1A	Net Assessed	$22528
School Levy	$134.51	Estimated Taxes	**$3030.24**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20050228	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.5891	69220	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Fair Interior Finish N/A
Condition Fair +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1982** Eff Year Built **1982** Year Remodeled **0**
Square Footage **11696**

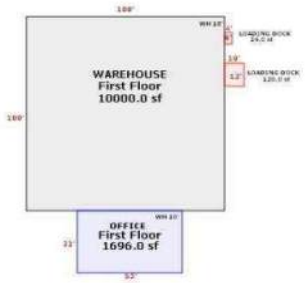
Commercial Elements

Stories N/A Story Height 00 Perimeter 570
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	8840
Loading Dock - Steel Framed	0	X	120
Loading Dock - Steel Framed	0	X	24
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

99234-92-34-09040



Legal Description

N200 OF W173.05 OF S 26.13AC NW NE LYINGS OF BYPASS RD SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

SOUTHERN HILLS MANOR INV CORP
C/O DARLENE RAY
7527 S HUDSON PL
TULSA, OK 741367201

Property Address

2414 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 185 R99234923409140

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$315900		$34749
Mobile	$0		$0
Total	$437200		$48092
		Exemptions	$0
School District	T-1A	Net Assessed	$48092
School Levy	$134.51	Estimated Taxes	**$6468.85**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	3.954	172237	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1980** Year Remodeled **1999**
Square Footage **16800**

Commercial Elements

Stories N/A Story Height 00 Perimeter 934
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Good	0	X	6500
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
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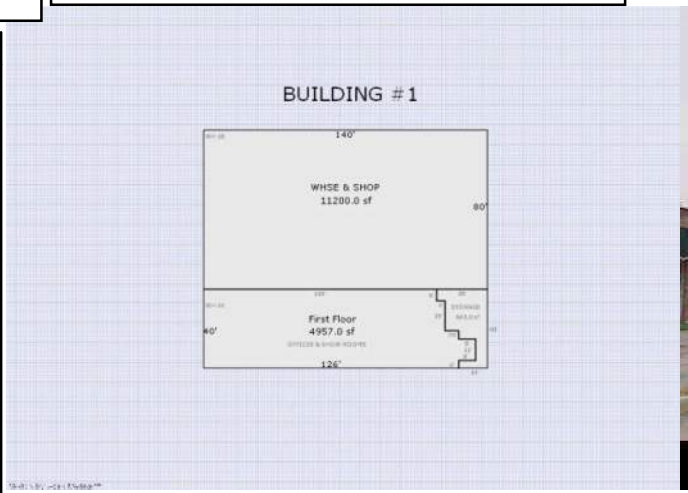
N/A	0		0



Legal Description

BEG 457S & 173.05E NWC NW NE TH E236.75 S8 E13.05 S292 E50 S100 W140 S100 W333.05 N300 E173.05 N200 POB LESS BEG 457S & 173.05E NWC NW NE TH E236.95 S2 W236.95 N2 POB FOR HWY SI

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Tulsa County Records [OK]

Owner Information

SOUTHERN HILLS MANOR
INVESTMENT CORP
7527 S HUDSON PL
TULSA, OK 74136

Property Address

2402 W SKELLY DR S TULSA 000000000

Building No. **0**

Account Number **R99234923409540** (186)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$14600	$1606
Mobile	$0	$0
Total	$14600	$1606
	Exemptions	$0
School District T-1A	Net Assessed	$1606
School Levy $134.51	Estimated Taxes	**$216.02**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.3352	14600	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 457S & 820.04W & 8S NEC NW NE TH S292 W80 N292 E80 POB LESS E30 FOR RD SEC 34 19 12 .335AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **187** **R99234923410070**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.68	29620	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG WL NW NE & SL BYPASS TH E410 S8 E63.05 POB TH S492 E60 N492 W60 POB SEC 34 19 12 .68AC

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Tulsa County Records [OK]

Owner Information

DEMORE ENTERPRISES OF TULSA, INC.
.
1352 N WEST BYPASS
SPRINGFIELD, MO 65803

Property Address

2228 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 188 R99234923410140

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$189500		$20845
Mobile	$0		$0
Total	$297000		$32670
		Exemptions	$0
School District	T-1A	Net Assessed	$32670
School Levy	$134.51	Estimated Taxes	**$4394.44**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090204	0	0/0	0
Grantor: MID-CONTINENT THERMO KING, INC.			
19810430	0	04541/01878	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.2341	53756	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

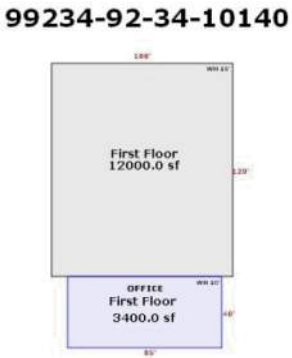
Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Plus Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1971** Eff Year Built **1971** Year Remodeled **0**
Square Footage **15400**

Commercial Elements

Stories N/A Story Height 00 Perimeter 690
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Avg	0	X	8750
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 457S & 600W NEC NW NE TH W163.15 S8 W26.95 S292 E190.04 N300 POB LESS .07 AC ON N FOR HWY SEC 34 19 12 1.23 AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

DEMORE ENTERPRISES OF TULSA, INC
.
1352 N WEST BYPASS
SPRINGFIELD, MO 65803

Property Address

2228 W SKELLY DR S TULSA 000000000

Building No. **0**

Account Number **R99234923410390** (189)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$9500	$1045
Mobile	$0	$0
Total	$9500	$1045
	Exemptions	$0
School District T-1A	Net Assessed	$1045
School Levy $134.51	Estimated Taxes	**$140.56**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.4363	19004	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090204	0	0/0	0

Grantor: MID-CONTINENT THERMO KING, INC.

Sale Date	Sale Price	Book/Page	$/SF
19810430	0	04541/01878	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

W190.04 E790.04 S100 N857 NW NE SEC 34 19 12 .436AC

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Tulsa County Records [OK]

Owner Information

PATEL, ISHAVERBHAI &
SAVITABEN ISHAVERBHAI PATEL
2222 W SKELLY DR
TULSA, OK 741079036

Property Address

2222 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 190 R99234923408040

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$287600		$31636
Mobile	$0		$0
Total	$404000		$44440
		Exemptions	$0
School District	T-1A	Net Assessed	$44440
School Levy	$134.51	Estimated Taxes	**$5977.62**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19811203	0	04583/00047	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	4.4019	191747	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

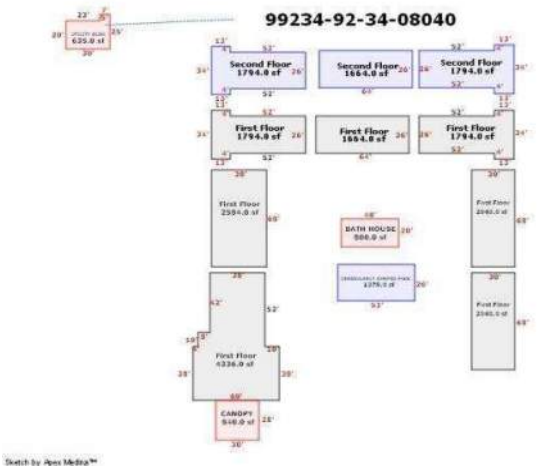
Type Commercial
Style Motel
Design Motel
Quality Low Interior Finish N/A
Condition Fair
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **21504**

Commercial Elements

Stories N/A Story Height 00 Perimeter 1480
Units 77 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	28865
Carport - CM Open Frame & Shingle	0	X	840
Utility Shed Wood Low	0	X	800
Utility Shed Wood Low	0	X	635
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



99234-92-34-08040-001 (8/2013)

Legal Description

BEG 500.65S & 200W NEC NW NE TH N & W403.5 S483 E400 N456.23 POB SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

AVERY BARRON HOLDINGS, LLC
.
2102 WEST SKELLY DR.
TULSA, OK 74107

Property Address

2102 W SKELLY DR S TULSA 000000000

Building No. 1 | Account Number 191 R99234923407840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$215800		$23738
Mobile	$0		$0
Total	$1004000		$110440
		Exemptions	$0
School District	T-1A	Net Assessed	$110440
School Levy	$134.51	Estimated Taxes	**$14855.28**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100928	902500	0/0	19.04
Grantor: RHOADES, C. DAVID RECEIVER			
20021015	1084300	06850/02574	22.88
Grantor:			
20021015	1100000	06850/02574	23.21
Grantor:			

Building Elements

Type	Commercial		
Style	Indust Lght Manufacturing		
Design	Indust Lght Manufacturing		
Quality	Fair	Interior Finish	N/A
Condition	Avg		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Forced Air	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1978**	Eff Year Built **1978**	Year Remodeled **0**
Square Footage	**47400**		

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.9819	86330	0	0

Description N/A

Mobile Home Information

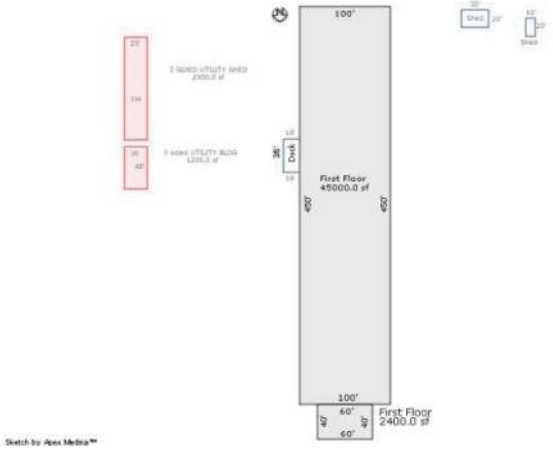
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A | Story Height 00 | Perimeter 1300
Units 1 | Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Dock-Height Floors 20000 sq ft	0	X	15000
Paving concrete heavy duty trucks low	0	X	7500
Utility Shed Metal Avg	0	X	2900
Utility Shed Metal Avg	0	X	1200
Loading Dock Roof simple woodorsteel no lights	0	X	608
Utility Shed Metal Avg	0	X	600
Utility Shed Metal Avg	0	X	200
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 550S NEC NW NE TH NW205.26 S456.3 E200 N407 POB SEC 34 19 12

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

192

Account Number **R99234923407540**

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.8695	124995	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19540930	0	02500/00123	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

E35 N653.18 S703.18 NE NE & W50 S770.07 NE NE & S50 E1272.61 NE NE SEC 34 19 12 2.87ACS

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Tulsa County Records [OK]

Owner Information

REALATION COMMUNITY SERVICES
OF OKLAHOMA INC
6774 E 66TH PL
TULSA, OK 74133

Property Address

2026 W SKELLY DR S TULSA 000000000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$210400	$23144
Mobile	$0	$0
Total	$456000	$50160
	Exemptions	$0
School District T-1A	Net Assessed	$50160
School Levy $134.51	Estimated Taxes	**$6747.02**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.4151	105203	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	35600
Canopies- stores, comm Steel Avg	0	X	273
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 193 R15552923407640

Sub Name: **FRISCO CENTER**
Lot: **1** Block: **1**
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20010418	595000	06507/02716	185.94
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

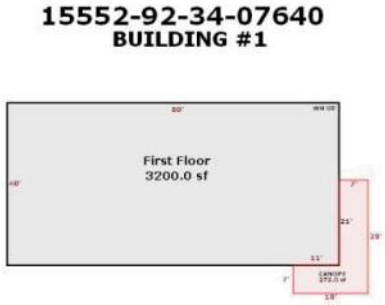
Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Group Care Homes
Design Restaurant
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1980** Eff Year Built **1980** Year Remodeled **0**
Square Footage **3200**

Commercial Elements

Stories N/A Story Height 00 Perimeter 240
Units 1 Rent 000
Class Description Wood Frame



Legal Description

LT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

RACETRACK PROPERTY LLC
.
745 W 51ST ST
TULSA, OK 74107

Property Address

2002 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number R37327923406740

Sub Name: SEBRING GRAND PRIX
Lot: 1 Block: 1
Area Name: TULSA CITY
Section 34 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$348800		$38368
Mobile	$0		$0
Total	$1775000		$195250
		Exemptions	$0
School District	T-1A	Net Assessed	$195250
School Levy	$134.51	Estimated Taxes	**$26263.08**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150127	860000	0/0	93.48

Grantor: UNION, LLC C.O BOB HURLEY FORD

Sale Date	Sale Price	Book/Page	$/SF
19971204	0	05985/01353	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	8.0061	348746	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type	Commercial		
Style	Office Building		
Design	Office Building		
Quality	Average	Interior Finish	N/A
Condition	Avg		
Roof	Gable		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Forced Air	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1983**	Eff Year Built **0**	Year Remodeled **0**
Square Footage	**9200**		

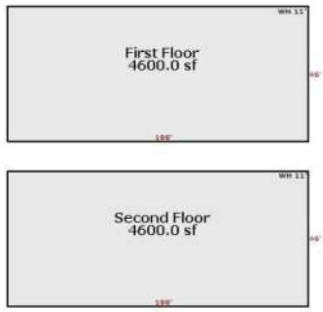
Commercial Elements

Stories	N/A	Story Height	00	Perimeter	292
Units	1	Rent	000		
Class Description	Metal Frame				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	140200
Paving concrete heavy duty trucks low	0	X	66800
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

37327-92-34-06740
BUILDING #1



Legal Description

LT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

BANNISTER INVESTMENTS LLC
.
5367 OAK LEAF DR
TULSA, OK 74131

Property Address

1800 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 195 R99234923405940

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$819463		$90141
Mobile	$0		$0
Total	$1167915		$128471
		Exemptions	$0
School District	T-1A	Net Assessed	$128471
School Levy	$134.51	Estimated Taxes	**$17280.63**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20051230	985000	00000/00000	31.27
Grantor:			
20050729	247500	00000/00000	7.86
Grantor:			
20030324	200000	06968/01370	6.35
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	8.3209	362458	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

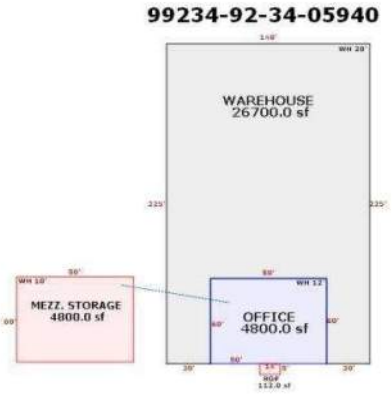
Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **2006** Eff Year Built **2006** Year Remodeled **0**
Square Footage **31500**

Commercial Elements

Stories N/A Story Height 00 Perimeter 1130
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	39800
Storage	0	X	4800
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 620S & 35W NEC NE NE TH W555.53 S651.72 E555.53 N653.18 POB SEC 34 19 12 8.32ACS

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Tulsa County Records [OK]

Owner Information

CARBONDALE ASSEMBLY OF
GOD CHURCH INC
2135 W 51ST ST
TULSA, OK 74107

Property Address

2135 W 51 ST S TULSA 741070000

Building No. 1

Account Number 196 R06635922726440

Sub Name: **CARBONDALE ASSEMBLY OF GOD CHURCH**

Lot: **1** Block: **1**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$58500		$0
Mobile	$0		$0
Total	$185796		$20438
		Exemptions	$20438
School District	T-1A	Net Assessed	$0
School Levy	$134.51	Estimated Taxes	**$0**

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	9.8069	427187	0	0

Description: N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type	Commercial		
Style	Church		
Design	Church w/Sunday School		
Quality	Average	Interior Finish	N/A
Condition	Avg		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Complete HVAC	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1970**	Eff Year Built **1970**	Year Remodeled **0**
Square Footage	**98735**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 1491
Units	0	Rent 000	
Class Description	Masonry		

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	179519
Canopy - CM Drive Under Avg	0	X	791
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

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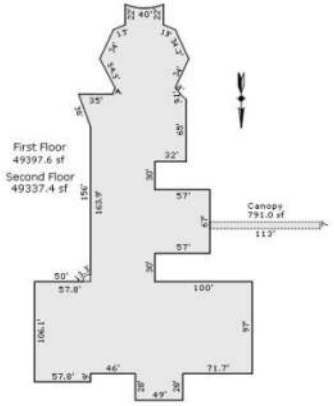

Legal Description

LT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **196A** **R99227922732730**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.254	11064	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19680325	0	03845/01166	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

E25 S300 & E25 N142.54 SE SW SE SEC 27 19 12 .254AC

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Tulsa County Records [OK]

Owner Information

HARRELL, DELMAR J AND DOROTHY M
C/O JOE ADMIRE JR
PO BOX 571273
TULSA, OK 741571273

Property Address

5007 S YUKON AV W

Building No. 1

Account Number 197 R18775922715930

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **10** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1595
Mobile	$0		$0
Total	$65100		$7161
		Exemptions	$0
School District	T-1A	Net Assessed	$7161
School Levy	$134.51	Estimated Taxes	**$963.23**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19790502	0	04396/02158	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1566	6820	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

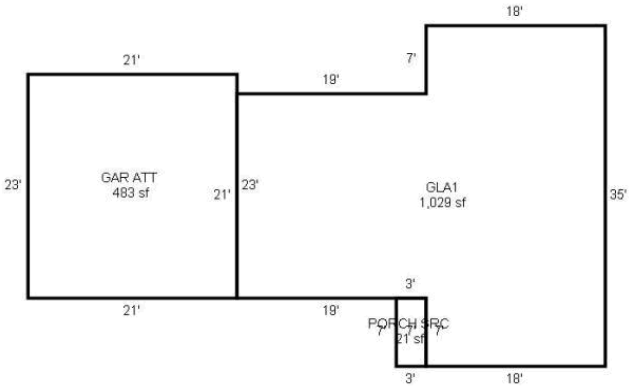
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 483
Porch Porch: Slab Roof Ceil Porch SF 21
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1029**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	483
Open Patio 438 Sf	0	X	400
Swimming Pools 300 SF (12x35)	0	X	180
Slab Roof Ceil	0	X	21
Standard	0	X	7
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-10-BLK-17

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Tulsa County Records [OK]

Owner Information

ELLIS, JOE R AND KERRI L
.
1525 W LINE ST
SAPULPA, OK 74066

Property Address

5013 S YUKON AV W

Building No. 1

Account Number 198 R18775922715940

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **11** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1595
Mobile	$0		$0
Total	$57000		$6270
		Exemptions	$0
School District	T-1A	Net Assessed	$6270
School Levy	$134.51	Estimated Taxes	**$843.38**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080101	49000	00000/00000	37.12
Grantor: HSBC BK USA, TRUSTEE			
20071023	0	00000/00000	0
Grantor: SHERIFF TULSA CO			
20030901	69000	07133/02155	52.27
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1566	6820	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

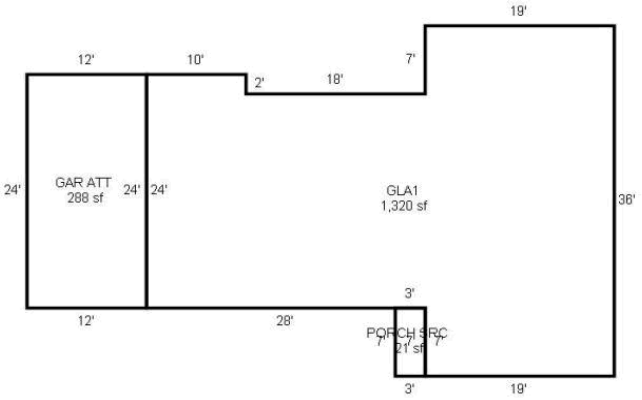
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 288
Porch Porch: Slab Roof Ceil Porch SF 21
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1320**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Stg 192 Sf O Pat 144 Sf	0	X	600
Attached	0	X	288
Slab Roof Ceil	0	X	21
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-11-BLK-17

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Tulsa County Records [OK]

Owner Information

NOZAK, LINDSAY
.
1944 W 50TH ST
TULSA, OK 74107

Property Address

1944 W 50 ST S

Building No. 1

Account Number 199 R18775922715920

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **9** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1405
Mobile	$0		$0
Total	$76500		$8415
		Exemptions	$1000
School District	T-1A	Net Assessed	$7415
School Levy	$134.51	Estimated Taxes	**$997.39**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150227	76500	0/0	67.58
Grantor:	ATKINSON, ROBERT E AND GENELLE D		
19980501	48000	06064/01165	42.4
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

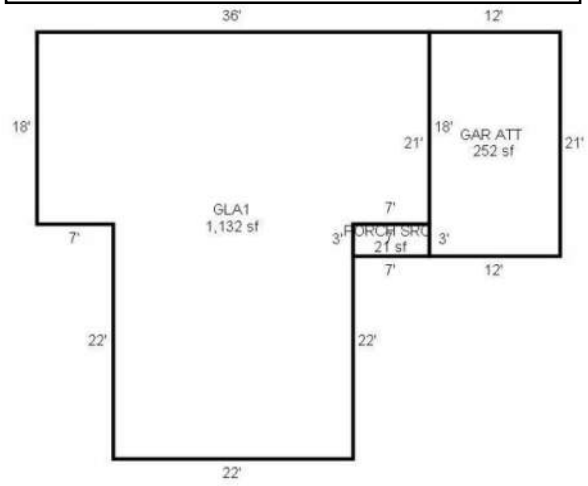
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 252
Porch Porch: Slab Roof Ceil Porch SF 21
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1132**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
O Pat 400 Sf	0	X	400
Attached	0	X	252
Slab Roof Ceil	0	X	21
Standard	0	X	7
Range Hood Fan	0	X	1
Security/Fire Alarm	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-9-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BEAN, JAMES & TRACY
.
6140 W 26TH ST
TULSA, OK 74107

Property Address

1943 W 51 ST S TULSA 000000000

Building No. 1

Account Number 200 R18775922715950

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **12** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$48500		$5335
Mobile	$0		$0
Total	$63000		$6930
		Exemptions	$0
School District	T-1A	Net Assessed	$6930
School Levy	$134.51	Estimated Taxes	**$932.15**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111221	0	0/0	0
Grantor: H U D			
20100114	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20080523	63000	0/0	55.85
Grantor: MCSHANE, WILLIAM			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

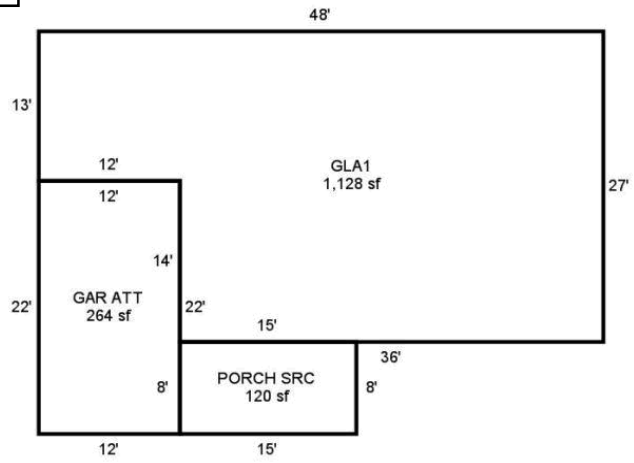
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	Drywall
Condition	Good		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1.1	Total Rooms 0
Garage	Garage: Attached		Garage SF 264
Porch	Porch: Slab Roof Ceil		Porch SF 120
Basement	N/A		Basement SF 0
Year Built	**1955**	Eff Year Built **1955**	Year Remodeled **0**
Square Footage	**1128**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	120
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-12-BLK-17

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Tulsa County Records [OK]

Owner Information

BRYAN, JESSE DALE & ASHLEY MARIE
.
1938 W 50TH ST S
TULSA, OK 741077818

Property Address

1938 W 50 ST S TULSA 000000000

Building No. 1

Account Number R18775922715910

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **8** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1399
Mobile	$0		$0
Total	$74000		$8140
		Exemptions	$1000
School District	T-1A	Net Assessed	$7140
School Levy	$134.51	Estimated Taxes	**$960.4**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140919	74000	0/0	64.07

Grantor: H & H PROPERTIES LLC

Sale Date	Sale Price	Book/Page	$/SF
20130826	33000	0/0	28.57

Grantor: WELLS FARGO FINANCIAL OKLAHOMA INC

Sale Date	Sale Price	Book/Page	$/SF
20130501	0	0/0	0

Grantor: TULSA COUNTY SHERIFF

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

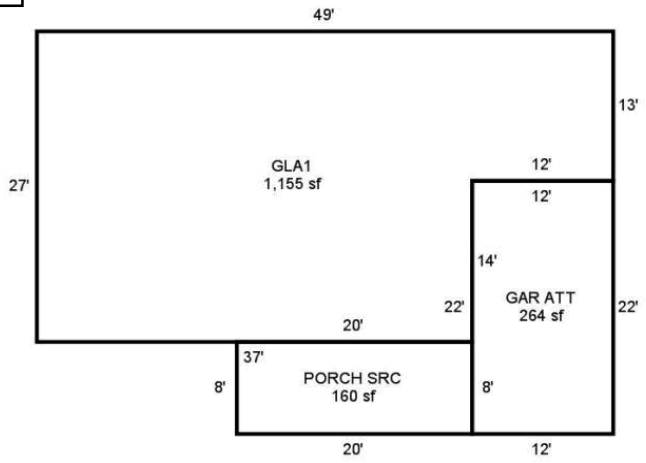
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	Drywall
Condition	Good +		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 264
Porch	Porch: Slab Roof Ceil		Porch SF 160
Basement	N/A		Basement SF 0
Year Built	**1956**	Eff Year Built **1956**	Year Remodeled **0**
Square Footage	**1155**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
O Pat 224 Cpt 240	0	X	600
Attached	0	X	264
Slab Roof Ceil	0	X	160
Standard	0	X	5
Dishwasher	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-8-BLK-17

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Tulsa County Records [OK]

Owner Information

BUMGARNER, NORMA JEAN & DAVID LEE &
OMIA SCOT
1939 W 51ST ST
TULSA, OK 74107

Property Address

1939 W 51 ST S

Building No. 1

Account Number 202 R18775922715960

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **13** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$60700		$5870
Mobile	$0		$0
Total	$75200		$8272
		Exemptions	$1000
School District	T-1A	Net Assessed	$7272
School Levy	$134.51	Estimated Taxes	**$978.16**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120105	0	0/0	0
Grantor: BUMGARNER, NORMA JEAN			
20021101	67500	06876/01443	58.59
Grantor:			
19990501	54000	06226/00030	46.88
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

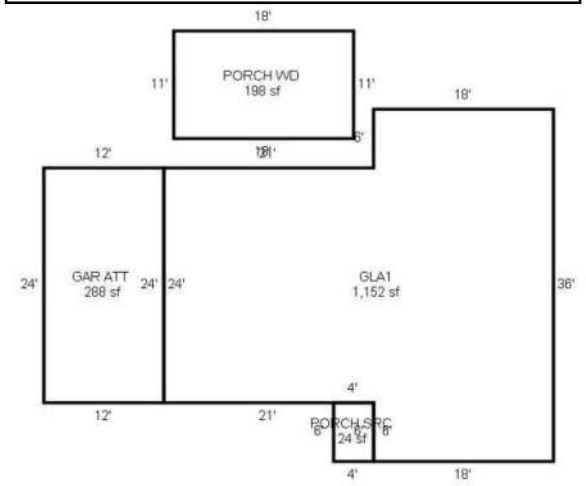
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 288
Porch Porch: Slab Roof Ceil Porch SF 24
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1152**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	288
O Pat 144 Sf	0	X	100
Slab Roof Ceil	0	X	24
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-13-BLK-17

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Tulsa County Records [OK]

Owner Information

CASTANEDA, FRANCISCO AND SARAH R
.
13102 S OAK ST
GLENPOOL, OK 74033

Property Address

1934 W 50 ST S

Building No. 1

Account Number 203 R18775922715900

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **7** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1358
Mobile	$0		$0
Total	$61200		$6732
		Exemptions	$0
School District	T-1A	Net Assessed	$6732
School Levy	$134.51	Estimated Taxes	**$905.52**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000801	53000	06410/01746	50.05
Grantor:			
19980801	45000	06152/00023	42.49
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair — Interior Finish Drywall
Condition Good
Roof Gable/Hip — Composition Shingle
Exterior Wall Frame Siding — N/A
Foundation Crawl Space — Fireplace N/A
Heat Cool Air in Heat Ducts — Air N/A
Beds 0 — Baths 1.1 — Total Rooms 0
Garage Garage: Attached — Garage SF 264
Porch N/A — Porch SF 0
Basement N/A — Basement SF 0
Year Built **1955** — Eff Year Built **1955** — Year Remodeled **0**
Square Footage **1059**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

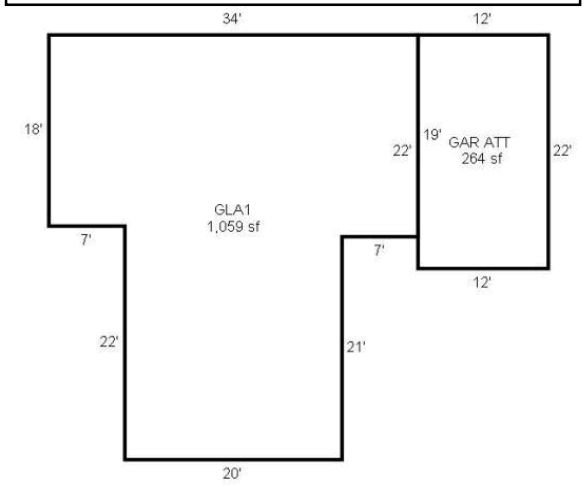
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 0
Units 0 — Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Open Deck 147 Sf	0	X	175
Standard	0	X	7
Fireplace Single	0	X	1
Attic Fan with Timer	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-7-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

KLEIN, DAVID H TRUSTEE
DAVID H KLEIN TRUST
1943 W 49TH PL
TULSA, OK 74107

Property Address

1933 W 51 ST S

Building No. 1

Account Number 204 R18775922715970

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **14** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$36400		$4004
Mobile	$0		$0
Total	$50900		$5599
		Exemptions	$0
School District	T-1A	Net Assessed	$5599
School Levy	$134.51	Estimated Taxes	**$753.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130306	0	0/0	0
Grantor: KLEIN, DAVID H			
20080627	18500	0/0	16.73
Grantor: HOLLAND, LEON E			
20070808	0	00000/00000	0
Grantor: TULSA CO DIST COURT			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 144
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1106**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

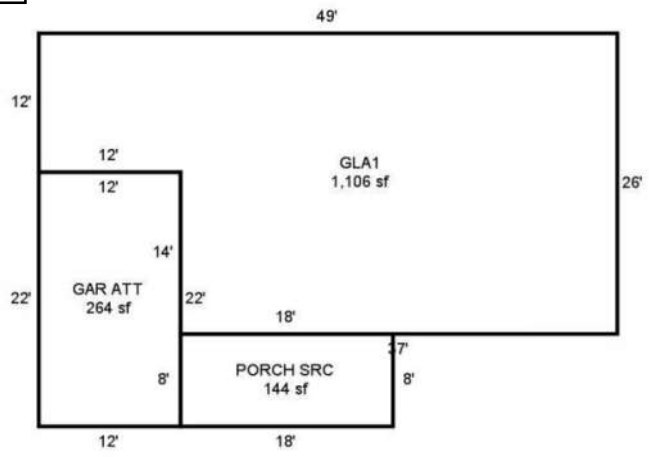
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	144
Standard	0	X	3
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-14-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

PURZNER, JOHN MICHAEL
.
1930 W 50TH ST
TULSA, OK 74107

Property Address

1930 W 50 ST S

Building No. 1

Account Number 205 R18775922715890

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **6** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1345
Mobile	$0		$0
Total	$58000		$6380
		Exemptions	$1000
School District	T-1A	Net Assessed	$5380
School Levy	$134.51	Estimated Taxes	**$723.66**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100205	0	0/0	0
Grantor: CARNES, FAIN R			
20100205	40000	0/0	39.68
Grantor: CARNES, DOLORES A			
20000608	0	06375/00990	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

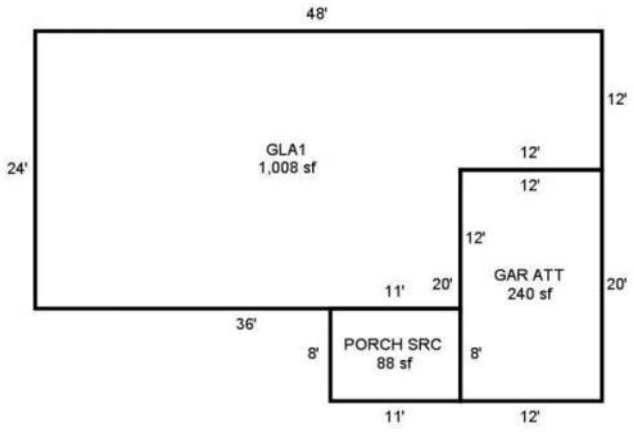
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 240
Porch Porch: Slab Roof Ceil Porch SF 88
Basement N/A Basement SF 0
Year Built **1958** Eff Year Built **1958** Year Remodeled **0**
Square Footage **1008**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	240
Slab Roof Ceil	0	X	88
Standard	0	X	7
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-6-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

JOHNSON, WILLIS GRANT AND
EVELYN M TRUSTEES
JOHNSON REV TRUST 5625 S UNION
TULSA, OK 74107

Property Address

1929 W 51 ST S

Building No. 1

Account Number 206 R18775922715980

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **15** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1595
Mobile	$0		$0
Total	$53100		$5841
		Exemptions	$0
School District	T-1A	Net Assessed	$5841
School Levy	$134.51	Estimated Taxes	**$785.67**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070308	0	00000/00000	0
Grantor: JOHNSON, WILLIS GRANT			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

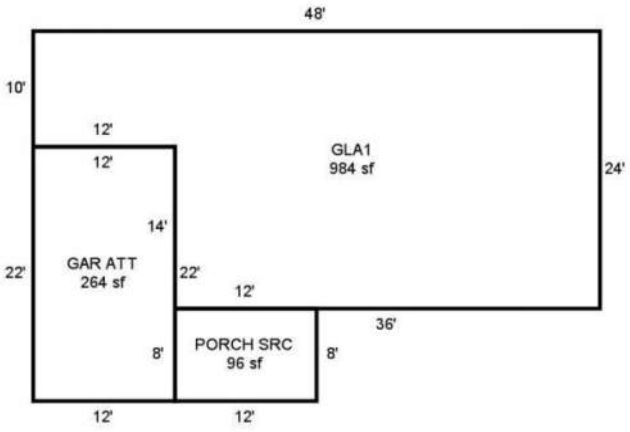
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 96
Basement N/A Basement SF 0
Year Built **1958** Eff Year Built **1958** Year Remodeled **0**
Square Footage **984**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	96
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-15-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CRA HOLDINGS LLC
.
5409 OAK FOREST LN
TULSA, OK 74131

Property Address

1924 W 50 ST S TULSA 000000000

Building No. 1

Account Number 207 R18775922715880

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **5** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1595
Mobile	$0		$0
Total	$60700		$6677
		Exemptions	$0
School District	T-1A	Net Assessed	$6677
School Levy	$134.51	Estimated Taxes	**$898.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120710	35500	0/0	27.91
Grantor: HENSON, GAY L			
20120710	0	0/0	0
Grantor: HENSON, DONALD G			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

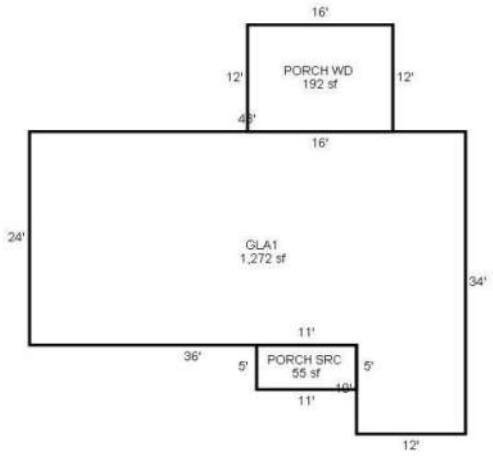
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 55
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1272**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	55
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-5-BLK17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

JOHNSON, SYLVIA M
.
7806 S COLLEGE PL
TULSA, OK 741368701

Property Address

1923 W 51 ST S

Building No. 1

Account Number 208 R18775922715990

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **16** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$40467		$3656
Mobile	$0		$0
Total	$67859		$7464
		Exemptions	$1000
School District	T-1A	Net Assessed	$6464
School Levy	$134.51	Estimated Taxes	**$869.47**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19950905	0	05742/00870	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 120
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **960**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

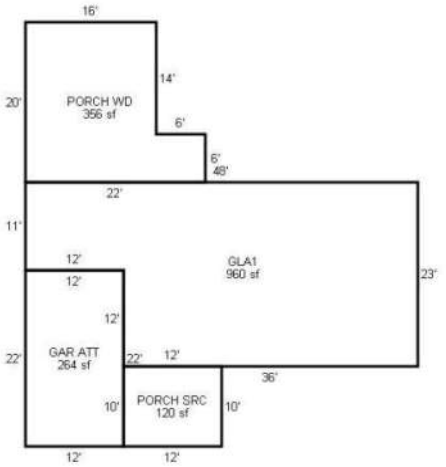
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	120
Standard	0	X	3
Laundry Facility	0	X	1
Hot Tub	0	X	1
Security/Fire Alarm	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-16-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCCOMBS, MARK ALAN AND OKSANA I
.
1920 W 50TH ST
TULSA, OK 74107

Property Address

1920 W 50 ST S

Building No. 1 | **209** | Account Number **R18775922715870**

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **4** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$46300		$4331
Mobile	$0		$0
Total	$60800		$6688
		Exemptions	$1000
School District	T-1A	Net Assessed	$5688
School Levy	$134.51	Estimated Taxes	**$765.09**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040625	0	00000/00000	0
Grantor: QUIMBY, LOEDDA			
19930801	38000	05534/01732	29.05
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description: N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

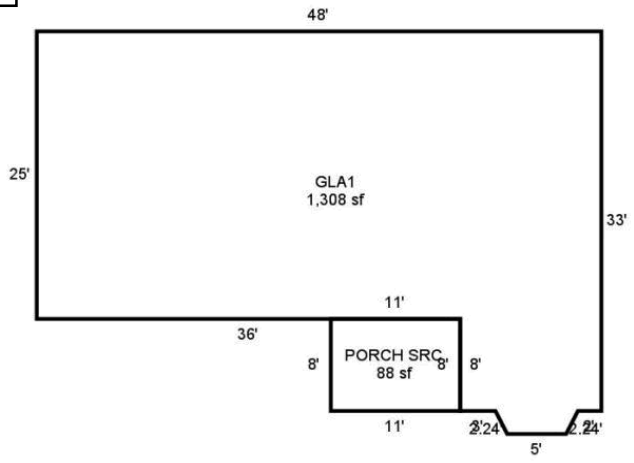
Type: Residential
Style: Single Family Residential *CODE
Design: Ranch 1 Story
Quality: Fair Interior Finish: N/A
Condition: Good
Roof: N/A Composition Shingle
Exterior Wall: Frame Siding N/A
Foundation: Crawl Space Fireplace: N/A
Heat: None Air: N/A
Beds: 0 Baths: 1 Total Rooms: 0
Garage: N/A Garage SF: 0
Porch: Porch: Slab Roof Ceil Porch SF: 88
Basement: N/A Basement SF: 0
Year Built: **1956** Eff Year Built: **1956** Year Remodeled: **0**
Square Footage: **1308**

Commercial Elements

Stories: N/A Story Height: 00 Perimeter: 0
Units: 0 Rent: 000
Class Description: N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Slab Roof Ceil	0	X	88
Standard	0	X	3
Laundry Facility	0	X	1
Dishwasher	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-4-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

URIAS, CRYSTAL D
.
1919 W 51ST ST
TULSA, OK 74107

Property Address

1919 W 51 ST S

Building No. 1

Account Number 210 R18775922716000

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **17** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$52000		$4901
Mobile	$0		$0
Total	$63500		$6985
		Exemptions	$1000
School District	T-1A	Net Assessed	$5985
School Levy	$134.51	Estimated Taxes	**$805.04**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20020901	63000	06845/00586	62.56
Grantor:			
19901201	36500	05291/01197	36.25
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

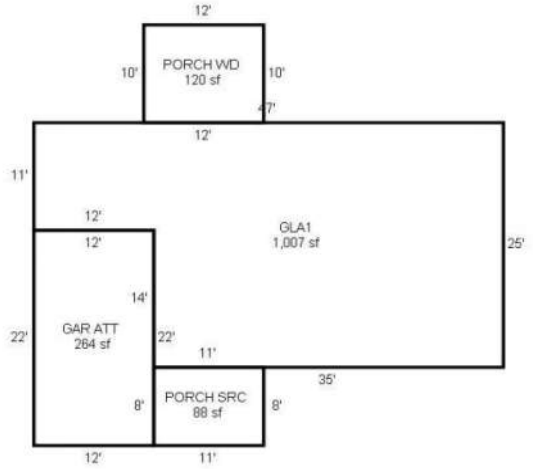
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	N/A
Condition	Good		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached	Garage SF	264
Porch	Porch: Slab Roof Ceil	Porch SF	88
Basement	N/A	Basement SF	0
Year Built	**1956**	Eff Year Built **1956**	Year Remodeled **0**
Square Footage	**1007**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	88
Standard	0	X	3
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-17-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

HAUCK, ALISSA

.

5620 S 89TH W AVE

TULSA, OK 74107

Property Address

1914 W 50 ST S

Building No. 1

Account Number 211 R18775922715860

Sub Name: **HILL HAVEN SECOND ADDN**

Lot: **3** Block: **17**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$54500		$5995
Mobile	$0		$0
Total	$69000		$7590
		Exemptions	$0
School District	T-1A	Net Assessed	$7590
School Levy	$134.51	Estimated Taxes	**$1020.93**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120511	69000	0/0	68.45

Grantor: MILLER, JASON E AND REBECCA L

Sale Date	Sale Price	Book/Page	$/SF
20040801	42500	00000/00000	42.16

Grantor: HONN, DONALD CASEY

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Interior Finish Drywall

Condition Good +

Roof Gable/Hip Composition Shingle

Exterior Wall Frame Siding N/A

Foundation Crawl Space Fireplace N/A

Heat None Air N/A

Beds 0 Baths 1.1 Total Rooms 0

Garage Garage: Attached Garage SF 264

Porch Porch: Slab Roof Ceil Porch SF 55

Basement N/A Basement SF 0

Year Built **1965** Eff Year Built **1965** Year Remodeled **0**

Square Footage **1008**

Commercial Elements

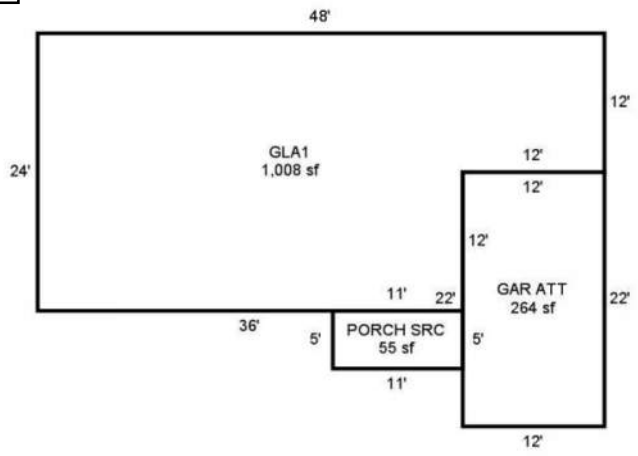
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Open Patio 100 Sf	0	X	100
Slab Roof Ceil	0	X	55
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-3-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

WOODS, BRITTANY ALISHA &
JEFFREY ALAN
1913 W 51ST
TULSA, OK 74107

Property Address

1913 W 51 ST S TULSA 000000000

Building No. 1

212

Account Number R18775922716010

Sub Name: **HILL HAVEN SECOND ADDN**

Lot: **18** Block: **17**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1372
Mobile	$0		$0
Total	$65000		$7150
		Exemptions	$1000
School District	T-1A	Net Assessed	$6150
School Levy	$134.51	Estimated Taxes	**$827.24**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20131031	65000	0/0	60.19

Grantor: YANDELL, DOUGLAS M & SHARON K

Sale Date	Sale Price	Book/Page	$/SF
20120406	51000	0/0	47.22

Grantor: GRANDI, JOHN P AND SHARON A CO TRUS

Sale Date	Sale Price	Book/Page	$/SF
20041104	0	00000/00000	0

Grantor: GRANDI, JOHN P

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

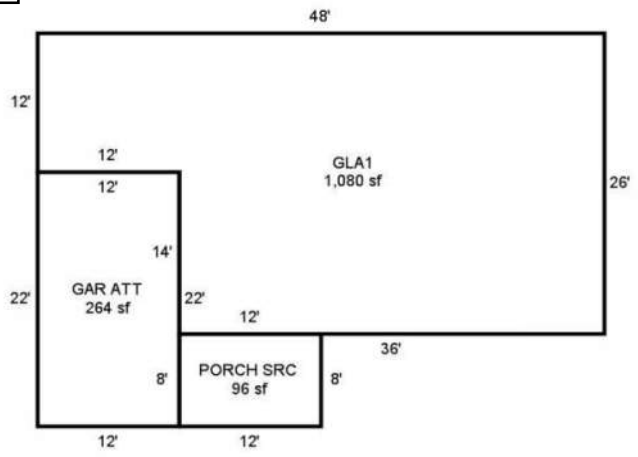
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	Drywall
Condition	Good +		
Roof	Gable/Hip		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached	Garage SF	264
Porch	Porch: Slab Roof Ceil	Porch SF	96
Basement	N/A	Basement SF	0
Year Built	**1955**	Eff Year Built **1955**	Year Remodeled **0**
Square Footage	**1080**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Slab Roof Ceil	0	X	96
Standard	0	X	3
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-18-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

PENN, A MICHELE
.
8835 E 91ST PL
TULSA, OK 741335558

Property Address

1910 W 50 ST S

Building No. 1

Account Number 213 R18775922715850

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **2** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$44205		$4067
Mobile	$0		$0
Total	$55570		$6113
		Exemptions	$1000
School District	T-1A	Net Assessed	$5113
School Levy	$134.51	Estimated Taxes	**$687.75**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160801	0	0/0	0
Grantor: HUD			
20151006	0	0/0	0
Grantor: UNITED STATES MARSHALL			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

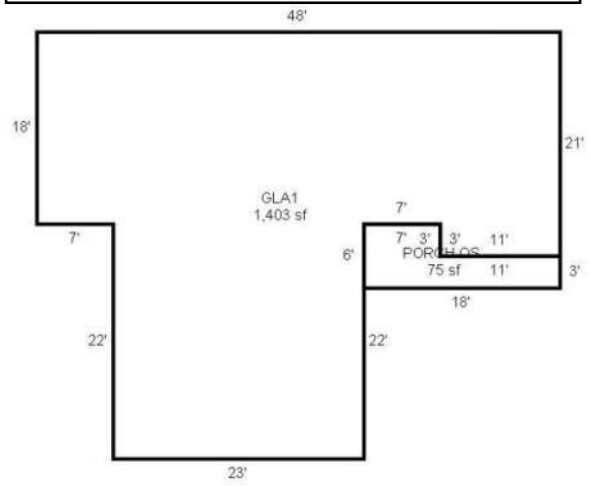
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1403**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 204 Sf Open Patio 150 Sf	0	X	400
Standard	0	X	7
Allowance	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-2-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

P2 EQUITY INC
.
9025 E 117TH ST
BIXBY, OK 74008

Property Address

1909 W 51 ST S TULSA 741070000

Building No. 1

Account Number 214 R18775922716020

Sub Name: **HILL HAVEN SECOND ADDN**
Lot: **19** Block: **17**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$14500		$1595
Mobile	$0		$0
Total	$65000		$7150
		Exemptions	$0
School District	T-1A	Net Assessed	$7150
School Levy	$134.51	Estimated Taxes	**$961.75**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20141017	300000	0/0	277.78
Grantor:	ONB BANK & TRUST CO		
20140505	0	0/0	0
Grantor:	REALPRO LLC		
20070501	55500	00000/00000	51.39
Grantor:	SHERIFF TULSA CO		

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.154	6710	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

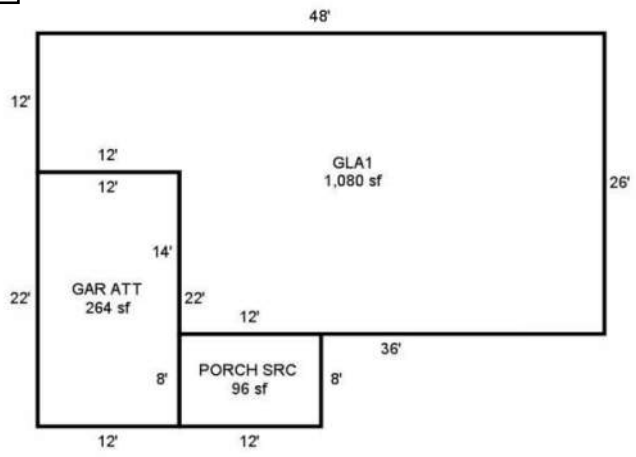
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 96
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1080**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Cov Pat 120 Sf	0	X	200
Slab Roof Ceil	0	X	96
Standard	0	X	7
Laundry Facility	0	X	1
Dishwasher	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-19-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BOLING, PEGGY C

.

1904 W 50TH ST

TULSA, OK 74107

Property Address

1904 W 50 ST S

Building No. 1

Account Number 215 R18775922715840

Sub Name: **HILL HAVEN SECOND ADDN**

Lot: **1** Block: **17**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$13840		$1013
Mobile	$0		$0
Total	$57000		$6270
		Exemptions	$2000
School District	T-1A	Net Assessed	$4270
School Levy	$134.51	Estimated Taxes	**$574.36**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20121206	0	0/0	0
Grantor: BOLING, PEGGY C			
20070730	0	00000/00000	0
Grantor: BOLING, PEGGY C			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1566	6820	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Interior Finish N/A

Condition Good

Roof N/A Composition Shingle

Exterior Wall FrameSiding/MasonryVeneer N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1 Total Rooms 0

Garage Garage: Attached Garage SF 288

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1958** Eff Year Built **1958** Year Remodeled **0**

Square Footage **998**

Commercial Elements

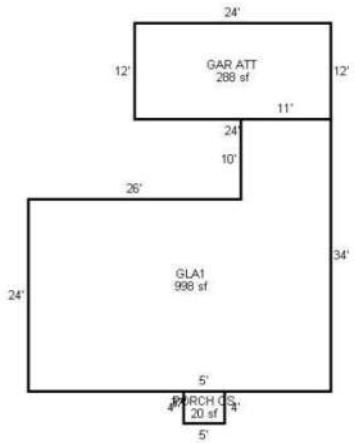
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	288
Open Patio 120 Sf	0	X	100
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-1-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

JJB PROPERTIES LLC
.
PO BOX 700862
TULSA, OK 74170

Property Address

1905 W 51 ST S

Building No. 1

Account Number R18775922716030 (216)

Sub Name: HILL HAVEN SECOND ADDN
Lot: 20 Block: 17
Area Name: TULSA CITY
Section 27 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$23756		$2613
Mobile	$0		$0
Total	$31261		$3439
		Exemptions	$0
School District	T-1A	Net Assessed	$3439
School Levy	$134.51	Estimated Taxes	$462.58

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19971121	0	05981/00923	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1566	6820	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

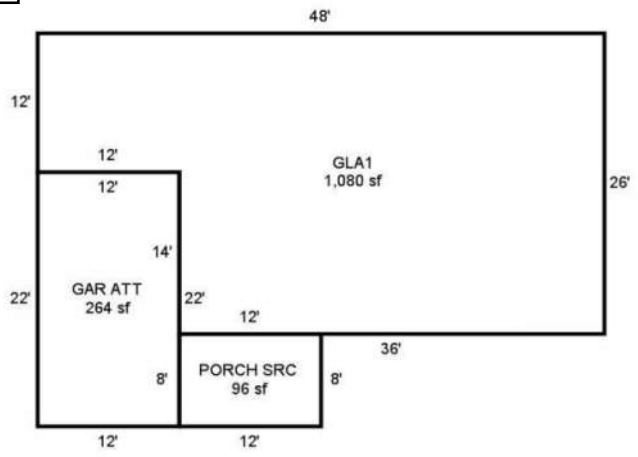
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Interior Finish N/A
Condition Good
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 264
Porch Porch: Slab Roof Ceil Porch SF 96
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1080**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
O Pat 250 Sf	0	X	300
Attached	0	X	264
Slab Roof Ceil	0	X	96
Standard	0	X	3
Range Hood Fan	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT-20-BLK-17

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

LEGACY FUNERAL HOLDINGS OF
OKLAHOMA LLC
3103 SACKETT
HOUSTON, TX 77098

Property Address

1823 W 51 ST S TULSA 000000000

Building No. 1

217

Account Number R16825922709270

Sub Name: **GREENFIELD ACRES**

Lot: **6** Block: **3**

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$126500		$13915
Mobile	$0		$0
Total	$420000		$46200
		Exemptions	$0
School District	T-1A	Net Assessed	$46200
School Levy	$134.51	Estimated Taxes	**$6214.36**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140528	420000	0/0	73.15

Grantor: PAXUS SERVICES (OKLAHOMA) INC

Sale Date	Sale Price	Book/Page	$/SF
20111228	420000	0/0	73.15

Grantor: FUNERAL DIRECTORS LIFE INSURANCE C

Sale Date	Sale Price	Book/Page	$/SF
20070130	390000	00000/00000	67.92

Grantor: ALDERWOODS, INC

Building Elements

Type Commercial
Style Mortuary
Design Mortuary
Quality Average — Interior Finish N/A
Condition Avg +
Roof Gable — N/A
Exterior Wall N/A — N/A
Foundation N/A — Fireplace N/A
Heat Package Unit — Air N/A
Beds 0 — Baths 0 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 0
Basement N/A — Basement SF 850
Year Built **1950** — Eff Year Built **1976** — Year Remodeled **2002**
Square Footage **5742**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.8296	36139	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 578
Units 1 — Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Avg	0	X	15000
Office	0	X	850
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

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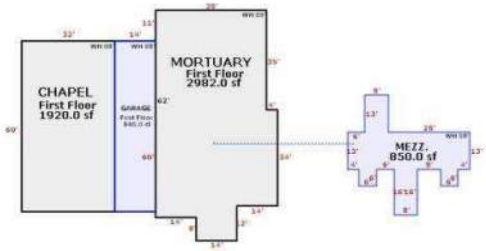


Legal Description

LT 6 LESS S10 THEREOF FOR STREET BLK 3

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

WHITETREE, MARK
.
1809 W 51ST ST
TULSA, OK 74107

Property Address

1809 W 51 ST S TULSA 741070000

Building No. 1

Account Number 218 R16825922709250

Sub Name: **GREENFIELD ACRES**
Lot: **5** Block: **3**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15000		$1650
Mobile	$0		$0
Total	$76000		$8360
		Exemptions	$0
School District	T-1A	Net Assessed	$8360
School Levy	$134.51	Estimated Taxes	**$1124.5**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150619	76000	0/0	80.17
Grantor: WILSON, GARY AND RITA			
20060301	0	00000/00000	0
Grantor: JACKSON, DYLAN L			
20060106	18500	00000/00000	19.51
Grantor: SOULE, STEVEN W, TRUSTEE			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2128	9270	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

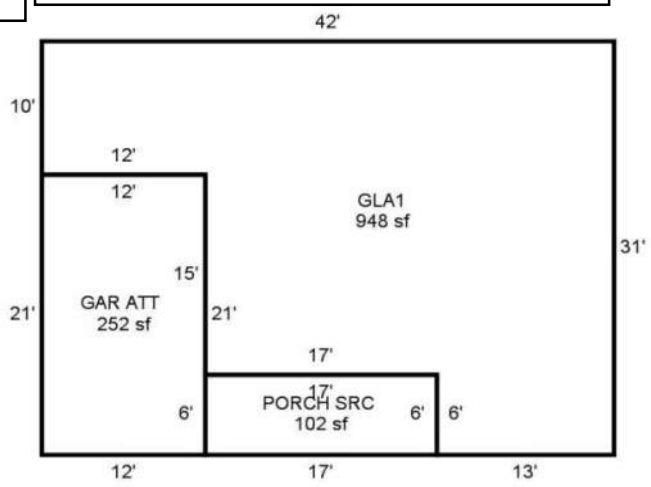
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 252
Porch Porch: Slab Roof Ceil Porch SF 102
Basement N/A Basement SF 0
Year Built **1951** Eff Year Built **1951** Year Remodeled **0**
Square Footage **948**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	252
Stg 108 Sf	0	X	200
Slab Roof Ceil	0	X	102
Standard	0	X	3
Security/Fire Alarm	0	X	1
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W60 S164.5 LT 5 LESS S10 THEREOF FOR STREET BLK 3

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

DAVIS, BENJAMIN C AND MONICA M
.
5924 W 43RD ST
TULSA, OK 74107

Property Address

1801 W 51 ST S TULSA 000000000

Building No. 1

Account Number 219 R16825922709240

Sub Name: **GREENFIELD ACRES**
Lot: **5** Block: **3**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$39100		$4301
Mobile	$0		$0
Total	$71200		$7832
		Exemptions	$0
School District	T-1A	Net Assessed	$7832
School Levy	$134.51	Estimated Taxes	**$1053.48**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150901	64000	0/0	79.01
Grantor: PEOPLES BANK			
20140305	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20030107	0	06909/01179	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.299	13024	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Office Building
Design Office Building
Quality Fair Interior Finish N/A
Condition Fair
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1972** Eff Year Built **1972** Year Remodeled **0**
Square Footage **810**

Commercial Elements

Stories N/A Story Height 00 Perimeter 114
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Avg	0	X	500
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

16825-92-27-09240

Sketch by Apex Medina™

16825-92-27-09240-001 (1/2013)

Legal Description

E84.3 S164.5 LT 5 LESS S10 THEREOF FOR STREET BLK 3

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

220

Account Number **R16825922708979**

Sub Name: **GREENFIELD ACRES**

Lot: Block:

Area Name: **TULSA CITY**

Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.2079	9058	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19830616	0	04699/00079	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 5 & 6 BLK 2 BEG NEC LT 5 TH S264.5 W288.6 N264.5 E5 S254.5 E275.6 N254.5 E8 POB & S10 LTS 5 & 6 BLK 3

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCCOY, SALLY B TRUSTEE
SALLY B MCCOY TRUST NO 2 ETAL
PO BOX 1949
TULSA, OK 74101

Property Address

1728 W 51 ST S TULSA 000000000

Building No. **0**

221

Account Number R99234923404780

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$60000		$6600
Mobile	$0		$0
Total	$60000		$6600
		Exemptions	$0
School District	T-1A	Net Assessed	$6600
School Levy	$134.51	Estimated Taxes	**$887.77**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.5511	24004	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19931013	0	05551/01995	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 50S & 365.6W NEC NE TH W194.46 SE91.64 SE94.83 E93.66 N149.13 POB SEC 34 19 12 .55AC

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Tulsa County Records [OK]

Owner Information

MCCOY, SALLY B TRUSTEE
SALLY B MCCOY TRUST NO 2 ETAL
PO BOX 1949
TULSA, OK 74101

Property Address

1722 W 51 ST S TULSA 000000000

Building No. 1

222

Account Number R99234923404740

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$56200		$6182
Mobile	$0		$0
Total	$180800		$19888
		Exemptions	$0
School District	T-1A	Net Assessed	$19888
School Levy	$134.51	Estimated Taxes	**$2675.13**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19931013	0	05551/01995	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.4297	18718	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Fast Food Restaurant
Design Fast Food Restaurant
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1968** Eff Year Built **1987** Year Remodeled **2005**
Square Footage **2223**

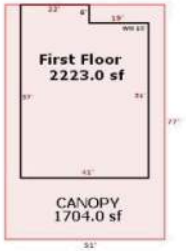
Commercial Elements

Stories N/A Story Height 00 Perimeter 196
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	14573
Canopies- stores, comm Wood Avg	0	X	1704
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

99234-92-34-04740



Legal Description

BEG 50S & 240W NEC NE TH S149.02 W125.61 N149.04 E125.6 POB SEC 34 19 12 .43AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCCOY, SALLY B AND
DONALD B ATKINS TRUSTEES
SALLY B MCCOY TRUST ETAL PO BOX 1949
TULSA, OK 741011949

Property Address

5100 S UNION AV W TULSA 000000000

Building No. 1

Account Number 223 R99234923404440

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$86600		$9526
Mobile	$0		$0
Total	$142100		$15631
		Exemptions	$0
School District	T-1A	Net Assessed	$15631
School Levy	$134.51	Estimated Taxes	**$2102.53**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19861230	0	04991/03578	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.4973	21662	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

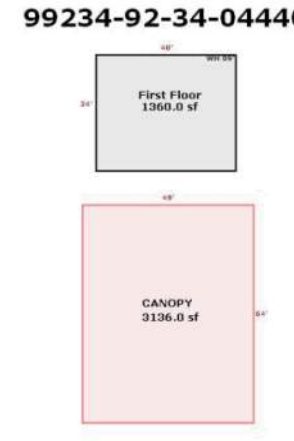
Type Commercial
Style Convenience Store
Design Convenience Store
Quality Fair Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1962** Eff Year Built **1962** Year Remodeled **0**
Square Footage **1360**

Commercial Elements

Stories N/A Story Height 00 Perimeter 148
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Avg	0	X	20000
Canopy - Gas Station Steel Avg	0	X	3136
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 50S & 65W NEC NE TH S92.34 SW164.05 W20.74 N148.15 E175 POB SEC 34 19 12 .50AC

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Tulsa County Records [OK]

Owner Information

TULSA INVESTMENT GROUP IV LP
C/O RYAN LLC
15 W 6TH ST STE 2400
TULSA, OK 741195417

Property Address

1723 W 51 ST S TULSA 000000000

Building No. 1

Account Number 224 R16825922708970

Sub Name: **GREENFIELD ACRES**
Lot: **6** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$124100		$13651
Mobile	$0		$0
Total	$348300		$38313
		Exemptions	$0
School District	T-1A	Net Assessed	$38313
School Levy	$134.51	Estimated Taxes	**$5153.48**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030304	357000	06969/02588	114.35
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.8139	35452	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Fast Food Restaurant
Design Fast Food Restaurant
Quality Average Interior Finish N/A
Condition Avg +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1983** Eff Year Built **1983** Year Remodeled **0**
Square Footage **3122**

Commercial Elements

Stories N/A Story Height 00 Perimeter 250
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	26000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

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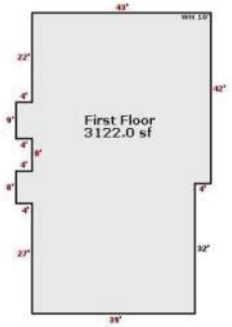

Legal Description

LT 6 LESS PRT FOR STREET BEG NWC TH S264.5 E144.3 N10 W139.3 N254.5 W5 POB BLK 2

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
DEPT OF HWYS R/W DEPT
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **225** **R06325923500060**

Sub Name: **CAMERON CLINE ACRES**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$3456		$380
Mobile	$0		$0
Total	$3456		$380
		Exemptions	$0
School District	T-1A	Net Assessed	$380
School Levy	$134.51	Estimated Taxes	**$51.11**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	20.2206	880810	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 1 THRU 7 & 9 BEG NEC LT 1 TH W468.02 SW274.9 W402.20 NW215 S457.15 SE357 SE465.47 S34.83 E500 N939.7 POB

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Tulsa County Records [OK]

Owner Information

LOLLIS, JACK & SUSAN
.
4504 S 73RD WEST AVE
TULSA, OK 741078298

Property Address

4904 S UNION AV W TULSA 000000000

Building No. 1

Account Number 226 R16825922708870

Sub Name: **GREENFIELD ACRES**
Lot: **2** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$88800		$9768
Mobile	$0		$0
Total	$170000		$18700
		Exemptions	$0
School District	T-1A	Net Assessed	$18700
School Levy	$134.51	Estimated Taxes	**$2515.34**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090130	170000	0/0	70.83
Grantor: GIBSON, M DAVID AND DARRELL G JENKIN			
19990513	102000	06216/00486	42.5
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type	Commercial		
Style	Retail Store		
Design	Retail Store		
Quality	Fair Plus	Interior Finish	N/A
Condition	Fair +		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Package Unit	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1999**	Eff Year Built **1999**	Year Remodeled **0**
Square Footage	**2400**		

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.6791	29582	0	0

Description N/A

Mobile Home Information

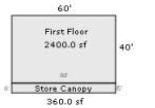
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 200
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	6000
Canopies- stores, comm Steel Low	0	X	360
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Sketch by Apex Medina™

Legal Description

LT 2 LESS S50 LT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

PAREKH, A JASHVANT AND MALTI J AND JASHVANTBHAI
208 S REDWOOD CIR
BROKEN ARROW, OK 740124529

Property Address

4910 S UNION AV W TULSA 000000000

Building No. 1

Account Number 227 R16825922708910

Sub Name: **GREENFIELD ACRES**
Lot: **2** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$21600		$2376
Mobile	$0		$0
Total	$42500		$4675
		Exemptions	$0
School District	T-1A	Net Assessed	$4675
School Levy	$134.51	Estimated Taxes	**$628.83**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19940830	0	05652/02380	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial
Style Florist Shop
Design Office Building
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **1131**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.1653	7200	0	0

Description N/A

Mobile Home Information

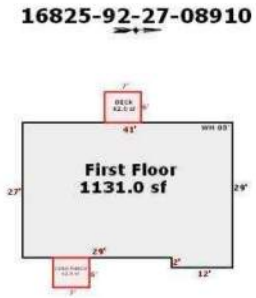
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Avg	0	X	1000
Standard	0	X	3
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S 50 LT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

CLARY, ARTHUR M SR AND EDYTHE
TRUSTEES CLARY TR
4916 S UNION
TULSA, OK 741077840

Property Address

4916 S UNION AV W

Building No. 1

Account Number 228 R16825922708930

Sub Name: **GREENFIELD ACRES**
Lot: Block:
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$37768		$2718
Mobile	$0		$0
Total	$52600		$5786
		Exemptions	$2000
School District	T-1A	Net Assessed	$3786
School Levy	$134.51	Estimated Taxes	**$509.25**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19980612	0	06065/00492	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.595	25920	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

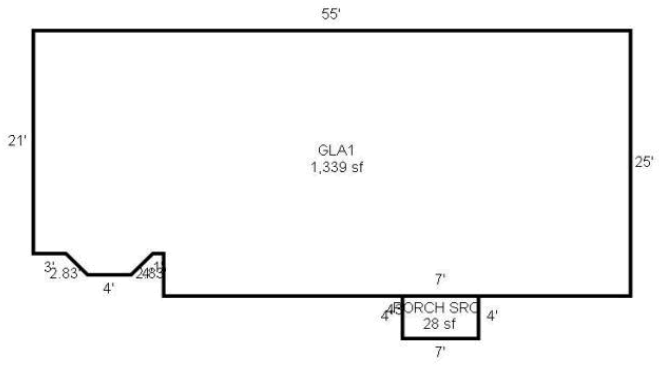
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 28
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1339**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Storage 575 Sf	0	X	3500
Cpt 240 Sf	0	X	400
Slab Roof Ceil	0	X	28
Standard	0	X	7
Garbage Disposal	0	X	1
Laundry Facility	0	X	1
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Wall Oven	0	X	1
N/A	0		0



Legal Description

N 180 LT 3 BLK 2

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Tulsa County Records [OK]

Owner Information

SOUTHWEST PROPERTIES REALTY
INC
3900 S 74TH WEST PL
TULSA, OK 741074866

Property Address

4918 S UNION AV W TULSA 000000000

Building No. 1

Account Number 229 R16825922708920

Sub Name: **GREENFIELD ACRES**
Lot: **3** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$22700		$2497
Mobile	$0		$0
Total	$55100		$6061
		Exemptions	$0
School District	T-1A	Net Assessed	$6061
School Levy	$134.51	Estimated Taxes	**$815.27**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19990208	0	06171/00138	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.2479	10800	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

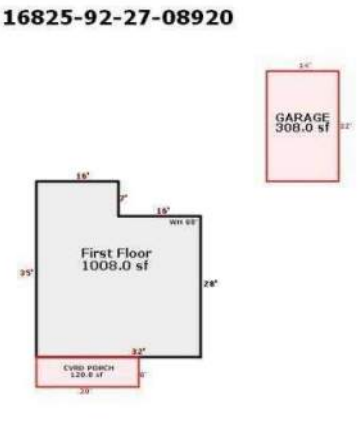
Type Commercial
Style Office Building
Design Office Building
Quality Fair Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **1008**

Commercial Elements

Stories N/A Story Height 00 Perimeter 134
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	1800
Detached	0	X	308
Standard	0	X	3
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S75 LT 3 BLK 2

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Tulsa County Records [OK]

Owner Information

CRW PROPERTIES INC
.
P O BOX 701713
TULSA, OK 74170

Property Address

4926 S UNION AV W TULSA 000000000

Building No. 0

Account Number 230 R16825922708950

Sub Name: **GREENFIELD ACRES**
Lot: **4** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$82425		$9067
Mobile	$0		$0
Total	$82425		$9067
		Exemptions	$0
School District	T-1A	Net Assessed	$9067
School Levy	$134.51	Estimated Taxes	**$1219.6**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110328	78500	0/0	0
Grantor:	REALPRO LIMITED LIABILITY COMPANY		
19990401	50000	06198/01015	0
Grantor:			
19930401	45000	05493/01971	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4224	18398	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N/2 LT 4 BLK 2

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Tulsa County Records [OK]

Owner Information

PLEASANT PROPERTIES LLC
.
PO BOX 52402
TULSA, OK 74152

Property Address

4948 S UNION AV W TULSA 000000000

Building No. 1

Account Number 231 R16825922708940

Sub Name: **GREENFIELD ACRES**
Lot: **4** Block: **2**
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$55200		$6072
Mobile	$0		$0
Total	$285000		$31350
		Exemptions	$0
School District	T-1A	Net Assessed	$31350
School Levy	$134.51	Estimated Taxes	**$4216.89**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140925	285000	0/0	51.11
Grantor: ONB BANK & TRUST CO			
20140505	0	0/0	0
Grantor: REALPRO LLC			
19990401	230000	06198/01010	41.25
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Mixed Retail Centers w/Office Units
Design Mixed Retail Centers w/Office Units
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1985** Eff Year Built **1985** Year Remodeled **0**
Square Footage **5576**

Commercial Elements

Stories N/A Story Height 00 Perimeter 354
Units 1 Rent 000
Class Description Wood Frame

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.4224	18398	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks high	0	X	8000
Canopies- stores, comm Wood Avg	0	X	711
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

16825-92-27-08940

Legal Description

S1/2 LT 4 BLK 2

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Tulsa County Records [OK]

Owner Information

LINC PROPERTIES LLC
.
8403 S 89TH WEST AVE
TULSA, OK 74131

Property Address

4966 S UNION AV W TULSA 000000000

Building No. 1

Account Number 232 R16825922708960

Sub Name: **GREENFIELD ACRES**
Lot: Block:
Area Name: **TULSA CITY**
Section **27** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$138700		$15257
Mobile	$0		$0
Total	$250000		$27500
		Exemptions	$0
School District	T-1A	Net Assessed	$27500
School Levy	$134.51	Estimated Taxes	**$3699.02**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130627	250000	0/0	69.6
Grantor: QUIKTRIP CORP			
20130604	285000	0/0	79.34
Grantor: ZALCMAN INV CO C/O QUIK TRIP CORP			
19840413	0	04782/00197	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.7963	34688	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Retail Store
Design Retail Store
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Forced Air Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1981** Eff Year Built **1989** Year Remodeled **2013**
Square Footage **3592**

Commercial Elements

Stories N/A Story Height 00 Perimeter 286
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	15500
Paving concrete heavy duty trucks low	0	X	13700
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

16825-92-27-08960

Sketch by Apex Medina™

Legal Description

LT 5 LESS PRT FOR STREET BEG NEC TH S264.5 W144.3 N10 E136.3 N254.5 E8 POB BLK 2

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Tulsa County Records [OK]

Owner Information

SHADOWBROOK PROPERTIES LLC
.
4915 S UNION AVE
TULSA, OK 74107

Property Address

4915 S UNION AV W TULSA 000000000

Building No. 1

Account Number R40925922601380 (233)

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **1** Block: **4**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$133116		$14643
Mobile	$0		$0
Total	$1035853		$113944
		Exemptions	$0
School District	T-1A	Net Assessed	$113944
School Levy	$134.51	Estimated Taxes	**$15326.61**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120330	0	0/0	0
Grantor: RONGEY, PAUL D AND JOHN A SMIT			
20010716	634200	06562/00438	19.83
Grantor:			
20000421	350000	06359/02349	10.95
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.3804	103691	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

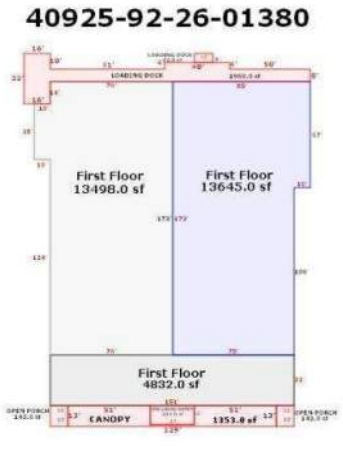
Type Commercial
Style Office Building
Design Office Building
Quality Fair Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1981** Year Remodeled **2002**
Square Footage **31975**

Commercial Elements

Stories N/A Story Height 00 Perimeter 1400
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	57000
Loading Dock - Steel Framed	0	X	3022
Canopies- stores, comm Steel Avg	0	X	1353
OPEN PORCH	0	X	286
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 1 & LT 2 LESS N10 LTS 1 & 2 & LESS E10 LT 1 & LESS W25 LT 2 & LESS BEG SECR THEREOF TH N123.6 W98 N10 W267 S TO PT ON SL LT 2 TH E365 POB BLK 4

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Tulsa County Records [OK]

Owner Information

RONGEY, PAUL D AND JOHN A SMITH
.
4915 S UNION AVE
TULSA, OK 74107

Property Address

4917 S UNION AV W TULSA 000000000

Building No. 1

Account Number 234 R40925922601400

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11500		$1265
Mobile	$0		$0
Total	$121700		$13387
		Exemptions	$0
School District	T-1A	Net Assessed	$13387
School Levy	$134.51	Estimated Taxes	**$1800.69**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20010716	115900	06562/00438	115900
Grantor:			
20000421	0	06359/02349	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.0992	47880	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Parking Lot
Design Parking Lot
Quality None Interior Finish N/A
Condition Avg
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1965** Eff Year Built **1965** Year Remodeled **0**
Square Footage **1**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description None

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	47880
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 1 & 2 BEG 10W SECR LT 1 TH N123.6 W98 N10 W267 S TO PT ON SL LT 2 TH E365 POB & N1 LTS 3 & 4 LESS W25 & E10 THEREOF FOR ST BLK 4

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Tulsa County Records [OK]

Owner Information

501 S LEWIS LLC
.
PO BOX 4335
TULSA, OK 74159

Property Address

4935 S UNION AV W TULSA 000000000

Building No. 1

Account Number 235 R40925922601420

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **3** Block: **4**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$315700		$34727
Mobile	$0		$0
Total	$480000		$52800
		Exemptions	$0
School District	T-1A	Net Assessed	$52800
School Levy	$134.51	Estimated Taxes	**$7102.13**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20131212	480000	0/0	35.37
Grantor:	UNION SQUARE SHOPPING CENTER LLC		
Sale Date	Sale Price	Book/Page	$/SF
19990209	0	06171/01665	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type	Commercial		
Style	Neighborhood Shopping Center		
Design	Neighborhood Shopping Center		
Quality	Fair Plus	Interior Finish	N/A
Condition	Fair +		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Package Unit	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1964**	Eff Year Built **1982**	Year Remodeled **1999**
Square Footage	**13570**		

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.5083	65700	0	0

Description N/A

Mobile Home Information

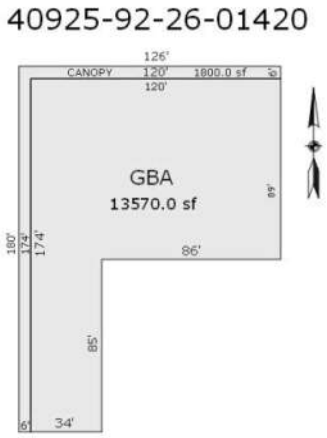
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 588
Units 0 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	50000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 3 & 4 LESS W150 S130 LT 3 & LESS N1 THEREOF & LESS S5 & E10 & W25 THEREOF FOR STS & LESS BEG 50E & 155N SWC SEC 26 19 12 TH N139 E175 S264 W50 N125 W125 POB & LESS BEG 225E

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Tulsa County Records [OK]

Owner Information

QUIKTRIP CORP
ATTN TAX DEPT
PO BOX 3475
TULSA, OK 74101

Property Address

1617 W 51 ST S TULSA 000000000

Building No. 1

Account Number 236 R40925922601425

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **3** Block: **4**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1125800		$123838
Mobile	$0		$0
Total	$1463300		$160963
		Exemptions	$0
School District	T-1A	Net Assessed	$160963
School Levy	$134.51	Estimated Taxes	**$21651.13**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111216	582000	0/0	100.21
Grantor:	UNION SQUARE SHOPPING CENTER LLC		
Sale Date	Sale Price	Book/Page	$/SF
20111216	582000	0/0	100.21
Grantor:	UNION SQUARE SHOPPING CENTER LLC		
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial
Style Convenience Store
Design Convenience Store
Quality Good Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **2012** Eff Year Built **2012** Year Remodeled **0**
Square Footage **5808**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.8534	80735	0	0

Description N/A

Mobile Home Information

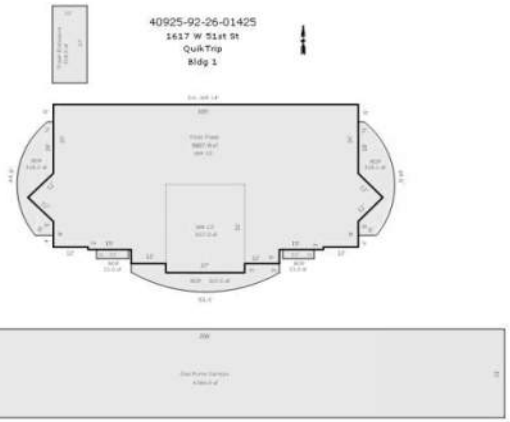
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 342
Units 1 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks high	0	X	52700
Canopy - Gas Station Steel Good	0	X	6386
Dumpster Enclosure	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT LT 3 BEG 50E & 155N SWC SEC 26 19 12 TH N139 E175 S264 W50 N125 W125 POB & BEG 225E & 30N SWC SEC 26 19 12 TH N264 E190 S264 W190 POB BLK 4

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Tulsa County Records [OK]

Owner Information

QUIKTRIP CORPORATION
ATT: TAX DEPT
PO BOX 3475
TULSA, OK 741013475

Property Address

4993 S UNION AV W TULSA 000000000

Building No. **0**

Account Number **R40925922601430** (237)

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **3** Block: **4**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$65300		$7183
Mobile	$0		$0
Total	$65300		$7183
		Exemptions	$0
School District	T-1A	Net Assessed	$7183
School Levy	$134.51	Estimated Taxes	**$966.19**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20111216	211500	0/0	0
Grantor: CMARK SUBSIDIARY A LLC AND CMARK RE			
20060829	155000	00000/00000	0
Grantor: B&B REAL ESTATE LLC			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.3587	15625	0	0

Description: N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

W 150' S 130 LOT 3 LESS W 25 & S 5 STS BLK 4

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2 ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **238** **R40925922601340**

Sub Name: **SUBURBAN HIGHLANDS**

Lot: Block:

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.8488	36975	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N 10 LTS 1 & 2 E 10 LTS 1 & 4 S 5 LOTS 3 & 4 & W 25 LTS 2 & 3 BLK 4 EXEMPT 05

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Tulsa County Records [OK]

Owner Information

ASPEN LAND & EXPLORATION COMPANY
.
P O BOX 4335
TULSA, OK 741590335

Property Address

1630 W 51 ST S TULSA 741070000

Building No. 1

Account Number 239 R06325923500180

Sub Name: **CAMERON CLINE ACRES**
Lot: **5** Block: **1**
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$122900		$13519
Mobile	$0		$0
Total	$200000		$22000
		Exemptions	$0
School District	T-1A	Net Assessed	$22000
School Levy	$134.51	Estimated Taxes	**$2959.22**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19870218	0	05002/01121	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.8066	35135	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

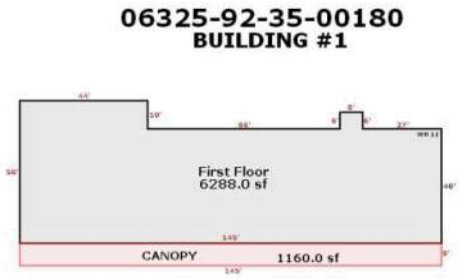
Type	Commercial		
Style	Neighborhood Shopping Center		
Design	Neighborhood Shopping Center		
Quality	Fair	Interior Finish	N/A
Condition	Fair +		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Package Unit	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 0
Year Built	**1965**	Eff Year Built **1965**	Year Remodeled **0**
Square Footage	**6288**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	402
Units	1	Rent	000		
Class Description	Wood Frame				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	25000
Canopies- stores, comm Wood Low	0	X	1160
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT LT 5 BEG NWC LT 5 TH S83 SE215 E74.2 N151.17 W278.48 POB

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Tulsa County Records [OK]

Owner Information

WEST BANK STORAGE LLC
.
4946 S MADISON AVE
TULSA, OK 74105

Property Address

1602 W 51 ST S TULSA 000000000

Building No. 0

Account Number 240 R06325923500100

Sub Name: **CAMERON CLINE ACRES**
Lot: **4** Block: **1**
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$54400		$5984
Mobile	$0		$0
Total	$54400		$5984
		Exemptions	$0
School District	T-1A	Net Assessed	$5984
School Levy	$134.51	Estimated Taxes	**$804.91**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120531	282500	0/0	0
Grantor: CLINE, LEWIS RICHARD REV TR			
20080115	0	00000/00000	0
Grantor: CLINE, LEWIS RICHARD			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.6247	27211	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 4 BEG NWC LT 4 TH E180 S151.17 W180 N151.17 POB

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **R06325923500258** (241)

Sub Name: **CAMERON CLINE ACRES**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19520122	0	02262/00585	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.1423	6198	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LTS 3 & 4 BEG NEC LT 4 TH W20 S151.17 E40 N151.17 W20 POB

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Tulsa County Records [OK]

Owner Information

WEST BANK STORAGE LLC
.
4946 S MADISON AVE
TULSA, OK 74105

Property Address

1602 W 51 ST S TULSA 741070000

Building No. 1

Account Number 242 R06325923500090

Sub Name: **CAMERON CLINE ACRES**
Lot: **2** Block: **1**
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$170800		$18788
Mobile	$0		$0
Total	$228100		$25091
		Exemptions	$0
School District	T-1A	Net Assessed	$25091
School Levy	$134.51	Estimated Taxes	**$3374.99**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120531	282500	0/0	105.81
Grantor: CLINE, LEWIS RICHARD REV TR			
20080115	0	00000/00000	0
Grantor: CLINE, LEWIS RICHARD			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial
Style Mini Warehouse
Design Mini Warehouse
Quality Fair Plus — Interior Finish N/A
Condition Fair +
Roof Flat — N/A
Exterior Wall N/A — N/A
Foundation N/A — Fireplace N/A
Heat None — Air N/A
Beds 0 — Baths 0 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 0
Basement N/A — Basement SF 0
Year Built **1978** — Eff Year Built **1978** — Year Remodeled **0**
Square Footage **2670**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	0.658	28663	0	0

Description N/A

Mobile Home Information

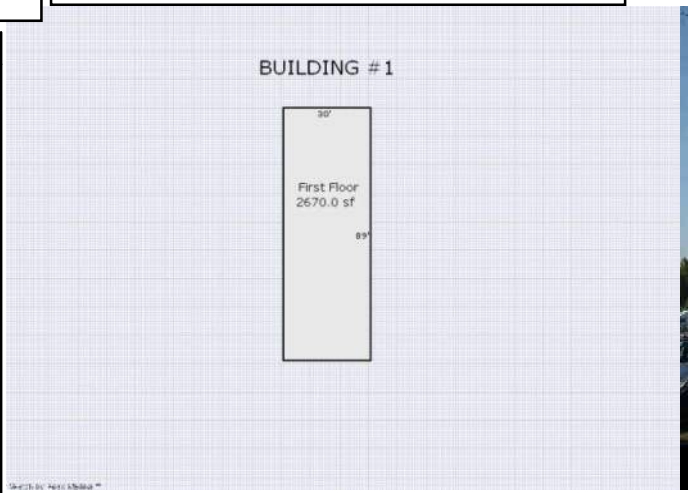
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 238
Units 22 — Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	14747
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT LTS 2 & 3 BEG 68.02W NEC LT 2 TH SW274.94 W108 N150.9 E311.9 POB

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BRADY RESIDENTIAL PROPERTIES
LLC
4503 W 89TH ST
TULSA, OK 741323429

Property Address

4927 S TACOMA AV W TULSA 000000000

Building No. 1

Account Number 243 R40925922601440

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$91019		$10012
Mobile	$0		$0
Total	$213030		$23433
		Exemptions	$0
School District	T-1A	Net Assessed	$23433
School Levy	$134.51	Estimated Taxes	**$3151.97**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000914	0	06416/02306	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.6692	116270	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1978** Eff Year Built **1978** Year Remodeled **0**
Square Footage **4560**

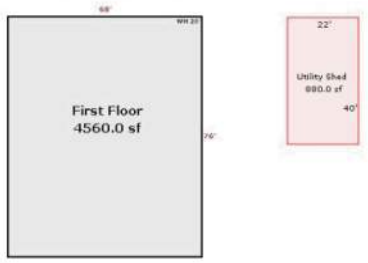
Commercial Elements

Stories N/A Story Height 00 Perimeter 272
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Avg	0	X	900
Utility Shed Metal Avg	0	X	880
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

40925-92-26-01440
BUILDING #1



Legal Description

LT 2 & W77 LT 1 BLK 5

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Tulsa County Records [OK]

Owner Information

DEUTSCHE BANK NATIONAL TRUST CO TTEE
.
7105 CORPORATE DR
PLANO, TX 75024

Property Address

1510 W 49 ST S

Building No. 1

Account Number 244 R40925922601450

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **1** Block: **5**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$60976		$5962
Mobile	$0		$0
Total	$81885		$9007
		Exemptions	$1000
School District	T-1A	Net Assessed	$8007
School Levy	$134.51	Estimated Taxes	**$1077.02**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160608	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20160428	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			
20050501	82500	00000/00000	74.73
Grantor: BERCHER, RANDY, SR			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.7415	32300	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

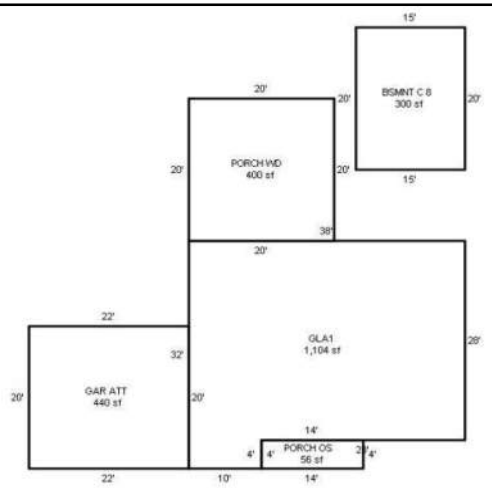
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Conventional Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 440
Porch N/A Porch SF 0
Basement N/A Basement SF 300
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **1104**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	440
Bsmnt Conc 8 ft	0	X	300
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W 76' E 153' LOT 1 BLK 5

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

LAHR, CARL E AND RITA A
.
1515 E 67TH ST N
TULSA, OK 741261335

Property Address

1504 W 49 ST S

Building No. 1

Account Number 245 R40925922601460

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **1** Block: **5**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$23243		$2557
Mobile	$0		$0
Total	$58108		$6392
		Exemptions	$0
School District	T-1A	Net Assessed	$6392
School Levy	$134.51	Estimated Taxes	**$859.79**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19820910	0	04637/00460	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.9464	41225	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

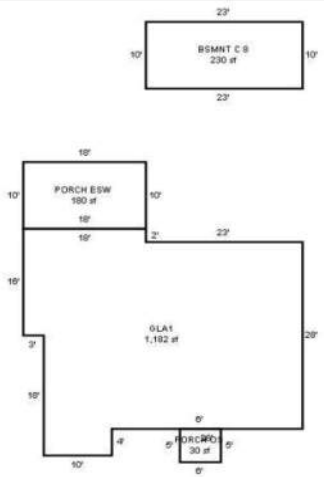
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Conventional Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Encl Solid Wall Porch SF 180
Basement N/A Basement SF 230
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **1182**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Bsmnt Conc 8 ft	0	X	230
Encl Solid Wall	0	X	180
Standard	0	X	3
Allowance	0	X	1
Laundry Facility	0	X	1
Security/Fire Alarm	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E77 LT 1 & W20 VAC ST BLK 5

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Tulsa County Records [OK]

Owner Information

BERCHER, ANNICE M & RANDY ROBERT
.
1410 W 49TH ST
TULSA, OK 74107

Property Address

1410 W 49 ST S

Building No. 1

Account Number 246 R40925922601640

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **2** Block: **6**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$16995		$1561
Mobile	$0		$0
Total	$55208		$6072
		Exemptions	$1000
School District	T-1A	Net Assessed	$5072
School Levy	$134.51	Estimated Taxes	**$682.23**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080606	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3444	15000	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

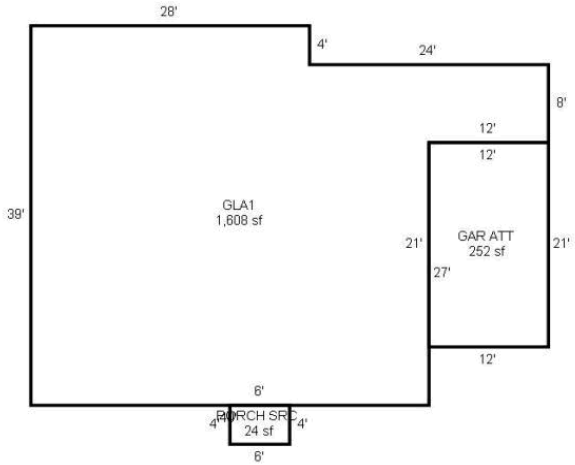
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Avg +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 252
Porch Porch: Slab Roof Ceil Porch SF 24
Basement N/A Basement SF 0
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **1608**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
C Pat 200 Sf	0	X	300
Attached	0	X	252
Slab Roof Ceil	0	X	24
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

W81 N150 LT 2 & E20 VAC ST BLK 6

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BERCHER, ANNICE M & RANDY ROBERT
.
1410 W 49TH ST
TULSA, OK 741078018

Property Address

Building No. 1

Account Number 247 R40925922601650

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$20207		$2223
Mobile	$0		$0
Total	$20626		$2269
		Exemptions	$0
School District	T-1A	Net Assessed	$2269
School Levy	$134.51	Estimated Taxes	**$305.2**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.6376	27775	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20090521	0	0/0	0
Grantor: BERCHER, ANNICE M			
20080606	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

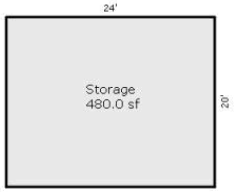
Type Residential
Style Shed - Equipment
Design Shed - Equipment
Quality Average Interior Finish N/A
Condition Fair
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **480**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Sketch by Apex Medina™

Legal Description

W81 S275 LT 2 & E20 VAC ST BLK 6

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Tulsa County Records [OK]

Owner Information

CROSSROADS FULL GOSPEL CHURCH
.
1310 W 49TH ST
TULSA, OK 74107

Property Address

TULSA 741070000

Building No. 1

Account Number 248 R40925922601630

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **2** Block: **6**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$44524		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19940712	0	05640/02330	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type Commercial
Style Storage Garage
Design Storage Garage
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **2014** Eff Year Built **2014** Year Remodeled **0**
Square Footage **400**

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	1.0147	44200	0	0

Description N/A

Mobile Home Information

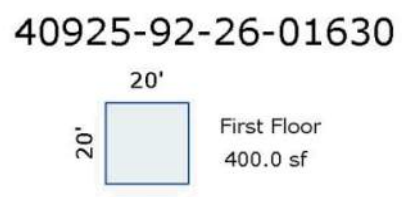
Serial No.
Make
Tag No. LxW 0 x 0

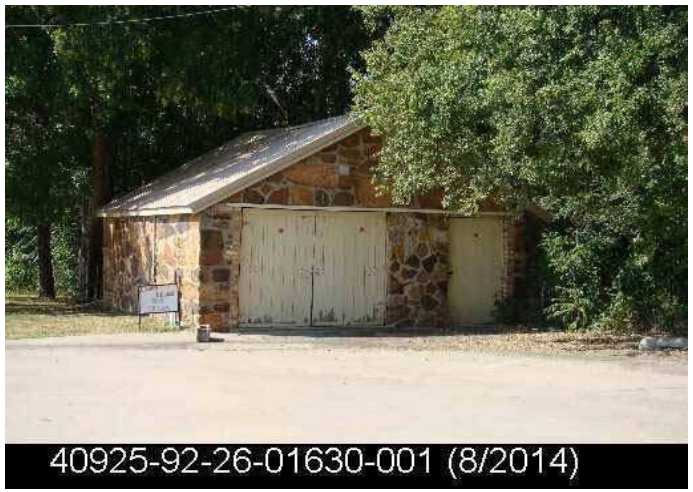
Commercial Elements

Stories N/A Story Height 00 Perimeter 80
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	13000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0





Legal Description

E 104' LOT 2 BLK 6

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Tulsa County Records [OK]

Owner Information

CROSSROADS PENTECOSTAL
CHURCH OF GOD INC
1310 W 49TH ST
TULSA, OK 741078016

Property Address

1310 W 49 ST S TULSA 741070000

Building No. 1

Account Number 249 R40925922601600

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$173000		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	1.765	76884	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19811231	0	04587/01270	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

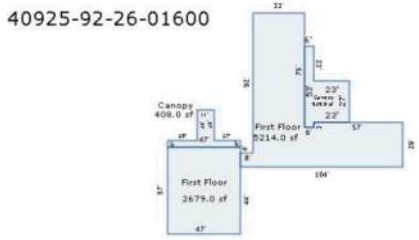
Type Commercial
Style Church
Design Church w/Sunday School
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **7893**

Commercial Elements

Stories N/A Story Height 00 Perimeter 624
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	18344
Canopy - CM Drive Under Avg	0	X	939
Canopy - CM Drive Under Avg	0	X	408
bldg on skids	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LT 1 LESS BEG NEC TH S425 W65.47 NE228.13 TO PT 12W EL TH N202.95 E12 POB BLK 6

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

WAREHOUSE MARKET 51ST & UNION LLC
.
C/O RYAN LLC 15 W 6TH ST STE 217
TULSA, OK 741195415

Property Address

1507 W 51 ST S TULSA 74107

Building No. 1

Account Number 250 R40925922601550

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **3** Block: **5**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1646500		$181115
Mobile	$0		$0
Total	$1937300		$213103
		Exemptions	$0
School District	T-1A	Net Assessed	$213103
School Levy	$134.51	Estimated Taxes	**$28664.48**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20061023	0	00000/00000	0
Grantor: WAREHOUSE MARKET, INC			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Warehouse Food Store
Design Warehouse Food Store
Quality Average Interior Finish N/A
Condition Average
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1993** Eff Year Built **1993** Year Remodeled **0**
Square Footage **46479**

Commercial Elements

Stories N/A Story Height 00 Perimeter 876
Units 1 Rent 000
Class Description Metal Frame

Land Information

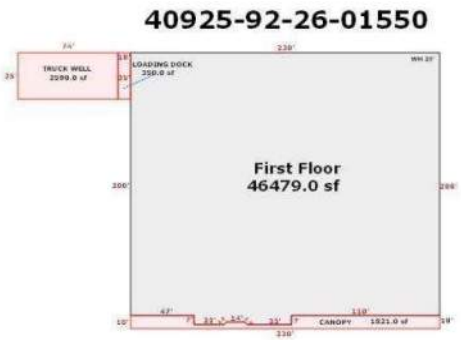
Land Use: Commercial

Lots	Acres	SF	Width	depth
0	4.4508	193878	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt, medium trucks	0	X	145000
Truck Well Conc 2 Walls	0	X	2590
Canopies- stores, comm Steel Avg	0	X	1821
Loading Dock - Steel Framed	0	X	350
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

ALL LTS 3 & 4 BLK 5 & ALL LT 3 BLK 6 LYING N HWY R/W & VAC SANTA FE AV BTW BLKS LESS BEG NEC LT 3 BLK 6 TH S180.17 SW89.20 W185 N238.25 W419.90 WL LT 3 BLK 5 N12 NWC BLK 5 E655 POI

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Tulsa County Records [OK]

Owner Information

ASPEN SQUARE INC
.
PO BOX 1861
MUSKOGEE, OK 74402

Property Address

1419 W 51 ST S TULSA 000000000

Building No. 1

Account Number 251 R40925922601680

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **4** Block: **5**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$314504		$34595
Mobile	$0		$0
Total	$364653		$40111
		Exemptions	$0
School District	T-1A	Net Assessed	$40111
School Levy	$134.51	Estimated Taxes	**$5395.33**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130107	0	0/0	0
Grantor: WAREHOUSE MARKET INC			
19980128	0	06004/01445	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.4467	63018	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Retail Store
Design Retail Store
Quality Average Plus Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1998** Eff Year Built **1998** Year Remodeled **0**
Square Footage **8000**

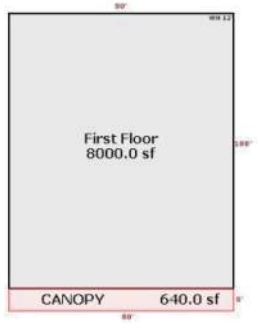
Commercial Elements

Stories N/A Story Height 00 Perimeter 360
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt, medium trucks	0	X	5400
Paving asphalt, medium trucks	0	X	3000
Canopies- stores, comm Steel Avg	0	X	640
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

40925-92-26-01680



40925-92-26-01680-001 (10/2012)

Legal Description

PRT LTS 3 & 4 BLK 5 & PRT LT 3 BLK 6 & VAC SANTA FE AVE BEG NEC LT 3 BLK 6 TH S180.17 SW89.20 W185 N238.25 W414.90 WL LT 3 BLK 5 N12 NWC BLK 5 E655 POB LESS W10 FOR ST

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2 ST STE 260
TULSA, OK 74103

Property Address

S TACOMA AV W

Taxable Market		Assessed Value
Land	$0	$0
Improved	$100	$0
Mobile	$0	$0
Total	$	$
	Exemptions	$
School District T-1A	Net Assessed	$
School Levy $134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.101	4400	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. **0**

Account Number **R40925922601529**

252

Sub Name: **SUBURBAN HIGHLANDS**

Lot: Block:

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19930401	0	05490/01001	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Legal Description

W10 LT 3 BLK 5

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Tulsa County Records [OK]

Owner Information

TULSA COUNTY
.
500 S DENVER RM 302
TULSA, OK 74103

Property Address

Building No. 0

Account Number 253 R40925922601599

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.1412	6150	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

S10 LTS 3 & 4 BLK 5 & S10 LT 3 BLK 6

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Tulsa County Records [OK]

Owner Information

CLINE, CHAD ALLEN AND
CHARLES C III CO TRUSTEES
BETTE L CLINE TRUST 5131 S UNION AVE
TULSA, OK 74107

Property Address

5131 S UNION AV W TULSA 000000000

Building No. **0**

Account Number **R06325923500260**

254

Sub Name: **CAMERON CLINE ACRES**

Lot: **7** Block: **1**

Area Name: **TULSA CITY**

Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$95800		$10538
Mobile	$0		$0
Total	$95800		$10538
		Exemptions	$0
School District	T-1A	Net Assessed	$10538
School Levy	$134.51	Estimated Taxes	**$1417.47**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19961122	0	05863/02340	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.4664	63875	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 7 LESS BEG NWC TH E350 S35 NW TO POB

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Tulsa County Records [OK]

Owner Information

CLINE, CHAD ALLEN AND
CHARLES C III CO TRUSTEES
BETTE L CLINE TRUST 5131 S UNION AVE
TULSA, OK 74107

Property Address

5131 S UNION AV W TULSA 741070000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$74203	$8162
Mobile	$0	$0
Total	$229730	$25270
	Exemptions	$0
School District T-1A	Net Assessed	$25270
School Levy $134.51	Estimated Taxes	**$3399.07**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.4836	64625	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	8800
Yard Paving Blacktop Good	0	X	6000
Canopies- offic,medcl,publc Steel Avg	0	X	200
Utility Shed Metal Avg	0	X	57
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 255 R06325923500280

Sub Name: **CAMERON CLINE ACRES**
Lot: **8** Block: **1**
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19961122	0	05863/02340	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

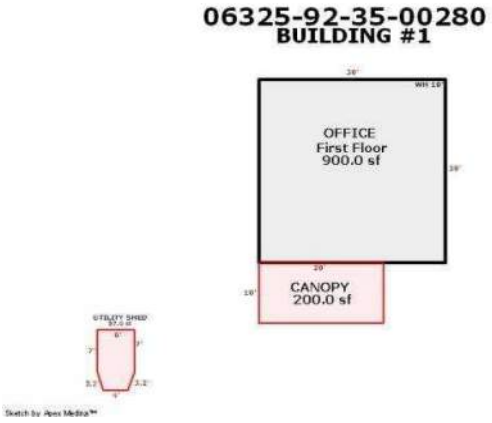
Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type	Commercial		
Style	Office Building		
Design	Office Building		
Quality	Average	Interior Finish	N/A
Condition	Avg		
Roof	Gable		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Package Unit	Air	N/A
Beds 0	Baths 0	Total Rooms	0
Garage	N/A	Garage SF	0
Porch	N/A	Porch SF	0
Basement	N/A	Basement SF	0
Year Built **1986**	Eff Year Built **1986**	Year Remodeled	**0**
Square Footage **900**			

Commercial Elements

Stories N/A	Story Height 00	Perimeter	120
Units 1	Rent 000		
Class Description	Metal Frame		



Legal Description

LT 8 LESS S25 W215

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Tulsa County Records [OK]

Owner Information

CLINE, CHAD ALLEN AND
CHARLES C III CO TRUSTEES
BETTE L CLINE TRUST 5131 S UNION AVE
TULSA, OK 74107

Property Address

5131 S UNION AV W TULSA 000000000

Building No. **0**

Account Number **R06325923500310**

256

Sub Name: **CAMERON CLINE ACRES**

Lot: **9** Block: **1**

Area Name: **TULSA CITY**

Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$79950		$8795
Mobile	$0		$0
Total	$79950		$8795
		Exemptions	$0
School District	T-1A	Net Assessed	$8795
School Levy	$134.51	Estimated Taxes	**$1183.02**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19961122	0	05863/02340	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.9454	84740	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 9 BEG SWC LT 9 TH N365 SELY465.47 TO PT 34.83N OF SL LT 9 TH S34.83 TO PT 499.72W SECR LT 9 W423.88 POB

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Tulsa County Records [OK]

Owner Information

WATTS, ROBERT
.
5251 S UNION AVE
TULSA, OK 74107

Property Address

5251 S UNION AV W TULSA 741070000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$64200	$6307
Mobile	$0	$0
Total	$85000	$9350
	Exemptions	$1000
School District T-1A	Net Assessed	$8350
School Levy $134.51	Estimated Taxes	**$1123.16**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.7926	34525	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
STG BLDG 768 SF	0	X	2000
Attached Stg 256 Open Patio 784	0	X	1800
Concrete Slab	0	X	1712
Encl Solid Wall	0	X	528
Swimming Pools 450 SF (15x30)	0	X	416
Slab Roof Ceil	0	X	124
Standard	0	X	6
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1

Building No. 1

Account Number 257 R99235923524140

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080423	70000	00000/00000	40.89

Grantor: SHERIFF TULSA CO

Sale Date	Sale Price	Book/Page	$/SF
19950701	90000	05729/00713	52.57

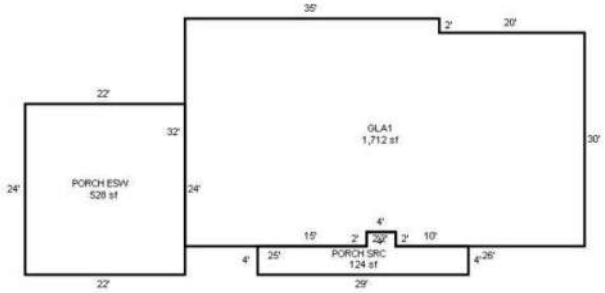
Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	Drywall
Condition	Good		
Roof	Gable/Hip		Wood Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 2	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 652
Basement	N/A		Basement SF 0
Year Built	**1946**	Eff Year Built **1946**	Year Remodeled **0**
Square Footage	**1712**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Legal Description

S25 W215 LT 8 CAMERON CLINE ACRES & N110 W265 OF S/2 S/2 NW NW SEC 35 19 12 .6692AC

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **258** **R99234923438440**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.5129	22344	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19960523	0	05811/02156	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG NEC S/2 NE TH S15 W1489.62 N15 E1489.62 POB SEC 34 19 12 .512AC

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Tulsa County Records [OK]

Owner Information

JANOWSKI, BRADEN S TRUSTEE BRADEN S
S. JANOWSKI TR.
1997 MORRIS DR
NILES, MI 491208620

Property Address

5300 S UNION AV W TULSA 000000000

Building No. **0**

Account Number **259** **R99234923430450**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$700000		$77000
Mobile	$0		$0
Total	$700000		$77000
		Exemptions	$0
School District	T-1B	Net Assessed	$77000
School Levy	$111.72	Estimated Taxes	**$8602.44**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	78.471	3418197	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080807	0	0/0	0

Grantor: HUGGINS, MICHAEL O

Sale Date	Sale Price	Book/Page	$/SF
20080728	700000	0/0	0

Grantor: BLACK, RICHARD A

Sale Date	Sale Price	Book/Page	$/SF
19970529	0	05919/01087	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

S/2 NE LESS BEG NEC S/2 NE TH S15 W1489.62 N15 E1489.62 FOR ST & LESS W30 S/2 NE FOR ST & LESS BEG 1545.92S & 35W NEC NE TH W15 S315 E15 N315 POB SEC 34 19 12 78.471ACS

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No.	Account Number
0	260 R99234923438329

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **34** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20020610	0	02497/02497	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.1085	4725	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 1545.92S & 35W NEC NE TH W15 S315 E15 N315 POB SEC 34 19 12 .108AC

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Tulsa County Records [OK]

Owner Information

JOHNSON, WILLIS G AND EVELYN M
TRUSTEES JOHNSON TR
5265 S UNION AVE
TULSA, OK 741079057

Property Address

5265 S UNION AV W

Building No. 1

Account Number 261 R99235923524240

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1349		$134
Mobile	$0		$0
Total	$97010		$10671
		Exemptions	$1000
School District	T-1A	Net Assessed	$9671
School Levy	$134.51	Estimated Taxes	**$1300.85**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070308	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Agricultural

Lots	Acres	SF	Width	depth
0	15.49	674744.4	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

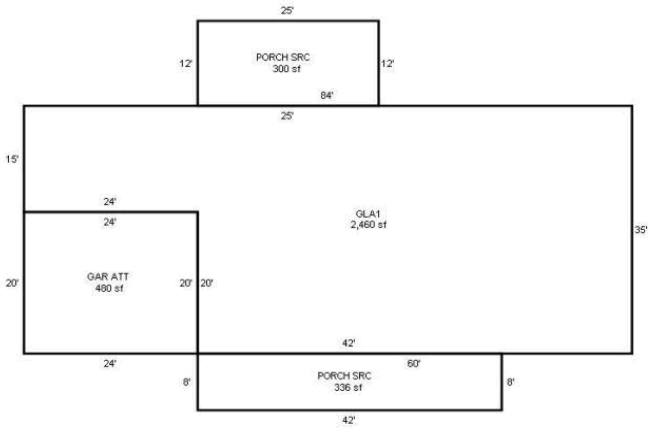
Type Residential
Style Single Family Residential On Ag *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 3 Total Rooms 0
Garage Garage: Attached Garage SF 480
Porch N/A Porch SF 636
Basement N/A Basement SF 0
Year Built **1955** Eff Year Built **1955** Year Remodeled **0**
Square Footage **2460**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	480
Slab Roof Ceil	0	X	336
Slab Roof Ceil	0	X	300
Standard	0	X	11
Fireplace Fair 1 Story	0	X	1
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
N/A	0		0



Legal Description

PRT W/2 NW BEG 1102.46S NWC NW TH S230.82 E265 S300 W265 S20.82 E1230.46 NE332.87 NW222.16 NW368 N51 W559.55 S110 W265 POB SEC 35 19 12 15.49ACS

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Tulsa County Records [OK]

Owner Information

SMITH, DAVID L AND HOLLIS J
.
724 N HIGHLAND TERRACE
CLEVELAND, OK 74020

Property Address

5301 S UNION AV W TULSA 741070000

Building No. 1

Account Number 262 R99235923525840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$49300		$5423
Mobile	$0		$0
Total	$95000		$10450
		Exemptions	$1000
School District	T-1A	Net Assessed	$9450
School Levy	$134.51	Estimated Taxes	**$1271.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20101209	0	0/0	0
Grantor: RIDENER, RENAE J AND DAVID L SMITH TR			
20101009	0	0/0	0
Grantor: RIDENER, RENAE J AND DAVID L MITH TRU			
20030521	0	07018/00136	0
Grantor:			

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Forced Air Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **5260**

Land Information

Land Use: Comm Res

Lots	Acres	SF	Width	depth
0	1.586	69086	0	0

Description N/A

Mobile Home Information

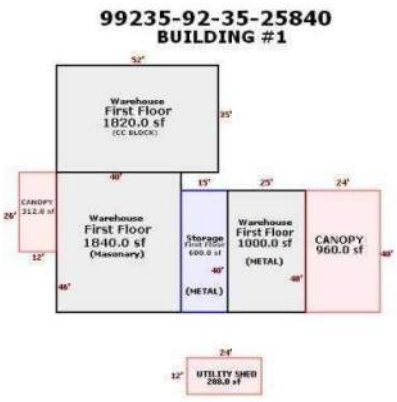
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 586
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Canopies- offic,meddl,publc Steel Avg	0	X	960
Cabana Low	0	X	312
Utility Shed Wood Avg	0	X	288
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S300 N310 W265 SW NW LESS BEG 1633.27S NWC NW TH E106 N9.41 W29 NW58.32 N117.55 W35 S167.37 POB SEC 35 19 12 1.586ACS

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **263** **R99235923526039**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.244	10629	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20020626	0	01336/01336	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT SW NW BEG 1633.27S NWC NW TH E106 N9.41 W29 NW58.32 N117.55 W35 S167.37 POB SEC 35 19 12 .244AC

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

5801 S UNION AV W TULSA 741070000

Building No. 1

Account Number 264 R99235923528840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market		Assessed Value
Land	$0	$0
Improved	$144632	$0
Mobile	$0	$0
Total	$	$
	Exemptions	$
School District T-1A	Net Assessed	$
School Levy $134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	64.4617	2807950	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Restroom Building/Concessions
Design Restroom Building/Concessions
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **150**

Commercial Elements

Stories N/A Story Height 00 Perimeter 50
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	75595
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

99235-92-35-28840

Sketch by Apex Medina™

Legal Description

S 30ACS SW NW & NW SW LESS PRT BEG 330S NEC SW NW TH S2308.21 W1.91 N675.33 NW645.59 NW500.62 N245.57 NE254.21 E90.80 POB SEC 35 19 12 67.45ACS

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Tulsa County Records [OK]

Owner Information

HOUSING AUTHORITY OF CITY OF
TULSA
415 E INDEPENDENCE
TULSA, OK 741065727

Property Address

1615 W 59 ST S TULSA 741070000

Building No. 0

265

Account Number R31760923537720

Sub Name: PARKVIEW TERRACE RESUB TURKEY MOU

Lot: 2 Block: 2

Area Name: TULSA CITY

Section 35 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$941600		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	14.4107	627728	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LOT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 266 R99235923516140

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$5109		$562
Mobile	$0		$0
Total	$5109		$562
		Exemptions	$0
School District	T-1A	Net Assessed	$562
School Levy	$134.51	Estimated Taxes	**$75.59**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19670323	0	03801/00579	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.4773	20790	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

26.79ACS IN NE NW & 12.45ACS IN SE NW & 3.60ACS IN W/2 NW SEC 35 19 12 42.84ACS

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 267 R99235923542740

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1524		$168
Mobile	$0		$0
Total	$1524		$168
		Exemptions	$0
School District	T-1A	Net Assessed	$168
School Levy	$134.51	Estimated Taxes	**$22.6**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19641019	0	03503/00672	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	26.484	1153641	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

19.20ACS IN E/2 SW & 1.09ACS IN NW SW & 3.47ACS IN SW SW SEC 35 19 12 23.76ACS

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Tulsa County Records [OK]

Owner Information

PLACEDER ONE LLC
.
124 E 4TH ST
TULSA, OK 74103

Property Address

Building No. 0

Account Number 268 R99235923547570

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$207	$23
Mobile	$0	$0
Total	$207	$23
	Exemptions	$0
School District T-1A	Net Assessed	$23
School Levy $134.51	Estimated Taxes	**$3.09**

Land Information

Land Use: Agricultural

Lots	Acres	SF	Width	depth
0	5.12	223027.2	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160108	0	0/0	0

Grantor: GRANT, ROBERT E AND DOROTHY S TRUS

Sale Date	Sale Price	Book/Page	$/SF
20160108	0	0/0	0

Grantor: BEELINE SIXTY-ONE PROPERTIES LLC

Sale Date	Sale Price	Book/Page	$/SF
20051228	0	0/0	0

Grantor: WHITESIDE & GRANT, INC

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 2645.14N & 264.20E SWC E/2 SW TH S598.60 SELY1100 SE112 NE617.60 N1197.78 W150 POB SEC 35 19 12 5.118ACS

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Tulsa County Records [OK]

Owner Information

COCHRAN, MICHAEL RAY REV TRUST
C/O MICHAEL RAY COCHRAN TTEE
6267 S 31ST WEST AVE
TULSA, OK 74132

Property Address

1417 W 47 ST S TULSA 741070000

Building No. 1

Account Number 269 R99226922635710

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$17300		$1903
Mobile	$0		$0
Total	$30900		$3399
		Exemptions	$0
School District	T-1A	Net Assessed	$3399
School Levy	$134.51	Estimated Taxes	**$457.2**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150420	0	0/0	0
Grantor: COCHRAN, MICHAEL RAY REV TRUST			
20140919	15000	0/0	15.18
Grantor: ROLLINS, CHARLES CLAIR			
20100601	0	0/0	0
Grantor: ROLLINS, LINDA GAIL			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.5496	67500	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

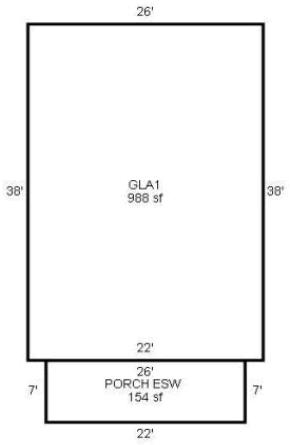
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Unsound
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Encl Solid Wall Porch SF 154
Basement N/A Basement SF 0
Year Built **1945** Eff Year Built **1945** Year Remodeled **0**
Square Footage **988**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Encl Solid Wall	0	X	154
Standard	0	X	5
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E60 W/2 SE NE NW SW & E/2 SE NE NW SW LESS S30 FOR ST SEC 26 19 12

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **270** **R99226922634790**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19560418	0	02677/00165	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.2273	9900	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

S30 SE NE NW SW SEC 26 19 12 .227AC

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Tulsa County Records [OK]

Owner Information

CLINE, CHARLES C JR AND BETTE L
TRUSTEES CHARLES C JR &
BETTE L CLINE TRUST 4739 S SANTA FE AVE
TULSA, OK 74107

Property Address

1410 W 47 ST S

Building No. 1

271

Account Number R40925922600930

Sub Name: **SUBURBAN HIGHLANDS**

Lot: **2** Block: **1**

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1571		$173
Mobile	$0		$0
Total	$28898		$3179
		Exemptions	$0
School District	T-1A	Net Assessed	$3179
School Levy	$134.51	Estimated Taxes	**$427.61**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19930914	0	05542/00416	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	2.0388	88810	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

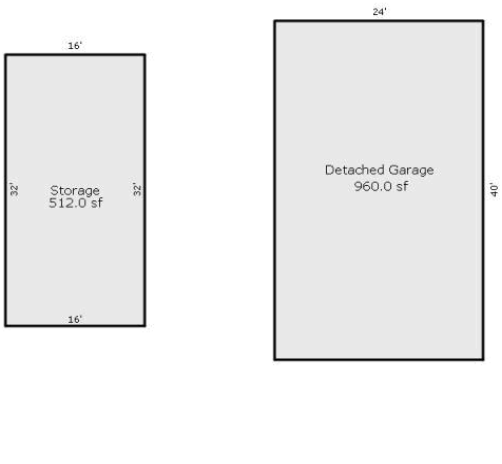
Type Residential
Style Detached Garage
Design Detached Garage
Quality Average Interior Finish N/A
Condition Fair
Roof N/A N/A
Exterior Wall Frame Corrugated Metal N/A
Foundation N/A Fireplace N/A
Heat None Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **960**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Outbuilding Tool Shed Buildings Average Quality	0	X	512
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Sketch by Apex Medina™

Legal Description

LT 1 LESS N135 W94 BLK 1

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Tulsa County Records [OK]

Owner Information

DILL, KIMBERLY KAY
.
1305 W 49TH ST S
TULSA, OK 74107

Property Address

1305 W 49 ST S

Building No. 1

Account Number 272 R40925922600990

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **4** Block: **1**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$25861		$2845
Mobile	$0		$0
Total	$129828		$14281
		Exemptions	$0
School District	T-1A	Net Assessed	$14281
School Levy	$134.51	Estimated Taxes	**$1920.94**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20050302	0	00000/00000	0
Grantor: KIRKSEY, JACK KEITH, TRUSTEE			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.8538	80752	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

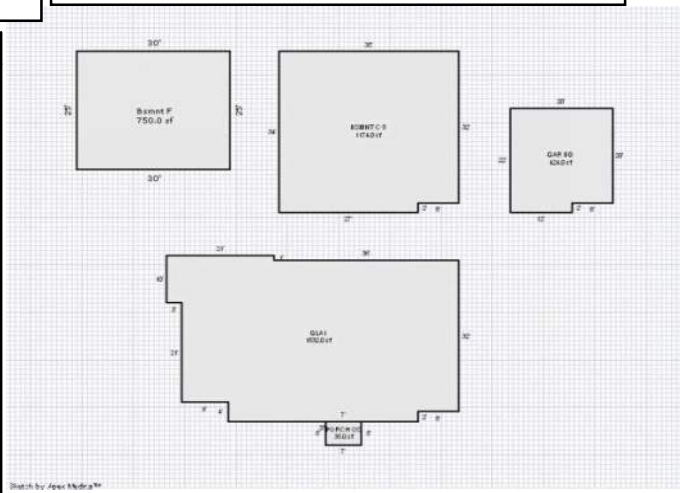
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Conventional Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Basement Double Garage SF 424
Porch Porch: Open Slab Porch SF 35
Basement N/A Basement SF 750
Year Built **1946** Eff Year Built **1946** Year Remodeled **0**
Square Footage **1832**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Metal Barn Shop 5162 Sf	0	X	23000
Carport 1000 Sf	0	X	1500
Bsmnt Conc 8 ft	0	X	1174
Finished	0	X	750
Basement Double	0	X	424
Open Slab	0	X	35
Standard	0	X	7
Garbage Disposal	0	X	1
Outside Entrance	0	X	1
Range Hood Fan	0	X	1



Legal Description

LOT 4 LESS W 85' OF S 261.5 BLK 1

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
.
DEPT OF HWYS R/W DIV
OKLAHOMA CITY, OK 73105

Property Address

Building No. **0**

Account Number **273** **R99226922633070**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market	Assessed Value
Land	$0	$0
Improved	$880	$97
Mobile	$0	$0
Total	$880	$97
	Exemptions	$0
School District T-1A	Net Assessed	$97
School Levy $134.51	Estimated Taxes	**$13.05**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	8.83	384635	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 25S NEC NE NW SW TH W300 S20 SE303.03 TO PT 244.77N SECR NE NE NW SW TH S1238.59 TO SWC SW NE SW TH E271.25 NLY951.02 NE341.84 NE129.35 TO PT 25S NL SEC TH W527.64 POB S

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF HWYS R/W DIV
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 274 R40925922601610

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2264		$249
Mobile	$0		$0
Total	$2264		$249
		Exemptions	$0
School District	T-1A	Net Assessed	$249
School Levy	$134.51	Estimated Taxes	**$33.49**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	13.3421	581183	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT BLKS 6 THRU 8 & VAC STREET BEG SWC LT 4 BLK 6 TH N10 W205 N35.13 E20 NE285.71N180.17 E141.95 NE228.13 N202.95 E334.12 S380 SE264.39 S285.92 W691.70 POB & BEG SWC BLK 8 TH N381.

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Tulsa County Records [OK]

Owner Information

ENBRIDGE PIPELINES LLC
C/O RIGHT OF WAY DEPARTMENT
119 N 25TH ST E
SUPERIOR, WI 54880

Property Address

Building No. **0**

275

Account Number **R99226922633250**

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$200		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.4893	64873	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040301	0	00000/00000	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 1689.85E & 45S NWC SW TH SW ALG EXP R/W 341.84 S952 TO PT 271.25E SWC NE SW TH E50 N945.05 NE341.84 N14.98 TO PT 37.17S NL SWLY 50.61 POB SEC 26 19 12 1.49ACS

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Tulsa County Records [OK]

Owner Information

CASEY, RHONDA L

.

1046 W 46TH ST

TULSA, OK 74107

Property Address

1046 W 46 ST S

Building No. 1

Account Number R99226922632010 276

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$251526		$27058
Mobile	$0		$0
Total	$412000		$45320
		Exemptions	$999
School District	T-1A	Net Assessed	$44321
School Levy	$134.51	Estimated Taxes	**$5961.62**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	10.51	457815.6	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130315	400000	0/0	110.04

Grantor: TYLER, NANCY S

Sale Date	Sale Price	Book/Page	$/SF
19850919	0	04893/00132	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential On Ag *CODE

Design 2 Story

Quality Average Plus Interior Finish Drywall

Condition Good

Roof Gable/Hip Composition Shingle

Exterior Wall FrameSiding/MasonryVeneer N/A

Foundation Slab Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 3 Total Rooms 0

Garage Garage: Attached Garage SF 684

Porch Porch: Slab Roof Ceil Porch SF 204

Basement N/A Basement SF 0

Year Built **1981** Eff Year Built **1981** Year Remodeled **0**

Square Footage **3635**

Commercial Elements

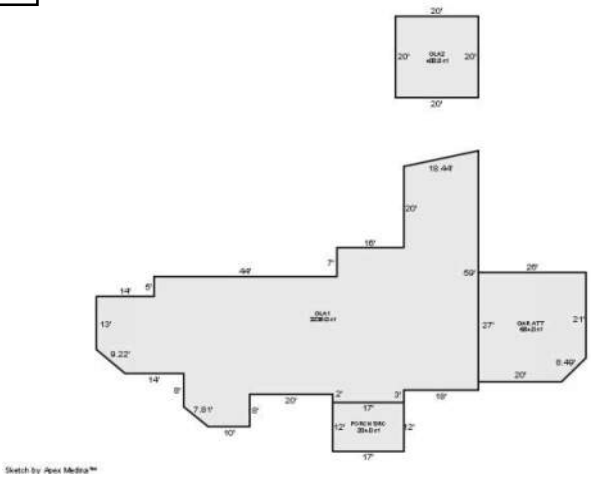
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	3235
Attached	0	X	684
Lean To Cheap	0	X	560
Patio 752 Sf	0	X	400
Slab Roof Ceil	0	X	204
Standard	0	X	11
Bath Heater	0	X	3
Fireplace Average 1 Story	0	X	2
Laundry Facility	0	X	1
Range Hood Fan	0	X	1



Legal Description

BEG 25S NEC W/2 NE SW TH W162.36 SW79.35 SE14.98 SW341.84 SE207.86 S731 E338.75 N1295 POB SEC 26 19 12 10.51AC

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Tulsa County Records [OK]

Owner Information

TEXAS EMPIRE PIPE LINE CO
C/O ENBRIDGE PIPELINES (OZARK)
LLC-ROW DEPT 119 N 25TH ST E
SUPERIOR, WI 54880

Property Address

Building No. **0**

Account Number **277** **R40925922602000**

Sub Name: **SUBURBAN HIGHLANDS**

Lot: Block:

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.4373	19050	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000101	0	01918/00487	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG AT PT 322.12' E SW COR BLK 8 TH N 381' W 50' S 381' E 50' TO BEG

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Tulsa County Records [OK]

Owner Information

BROWN, JIMMY L AND KATHLEEN L
.
1125 W 49TH ST
TULSA, OK 741078011

Property Address

1125 W 49 ST S

Building No. 1

Account Number 278 R40925922601930

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block: **8**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$70143		$6907
Mobile	$0		$0
Total	$86726		$9540
		Exemptions	$1000
School District	T-1A	Net Assessed	$8540
School Levy	$134.51	Estimated Taxes	**$1148.72**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19850304	0	04847/02485	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.7346	31997	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

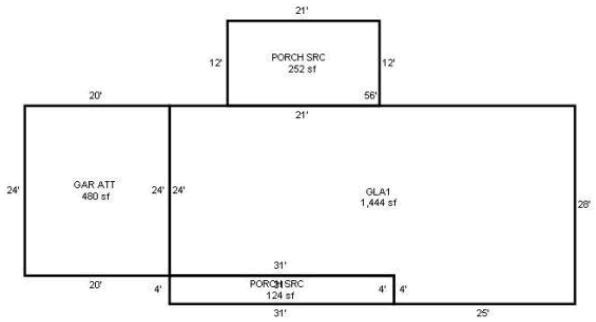
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 480
Porch N/A Porch SF 376
Basement N/A Basement SF 0
Year Built **1964** Eff Year Built **1964** Year Remodeled **0**
Square Footage **1444**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1444
Attached	0	X	480
Slab Roof Ceil	0	X	252
Slab Roof Ceil	0	X	124
Standard	0	X	5
Dishwasher	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
Range Hood Fan	0	X	1



Legal Description

E84 W406.12 BLK 8

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Tulsa County Records [OK]

Owner Information

BIVINS, LOYD AND MARSHA
.
4834 S OLYMPIA AVE
TULSA, OK 74107

Property Address

4834 S OLYMPIA AV W

Building No. 1

Account Number 279 R40925922601970

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block: **8**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$23999		$2450
Mobile	$0		$0
Total	$126175		$13879
		Exemptions	$1000
School District	T-1A	Net Assessed	$12879
School Levy	$134.51	Estimated Taxes	**$1732.35**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19920401	9500	05399/01874	7.33
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 288
Basement N/A Basement SF 0
Year Built **1993** Eff Year Built **1993** Year Remodeled **0**
Square Footage **1296**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.058	46085	0	0

Description N/A

Mobile Home Information

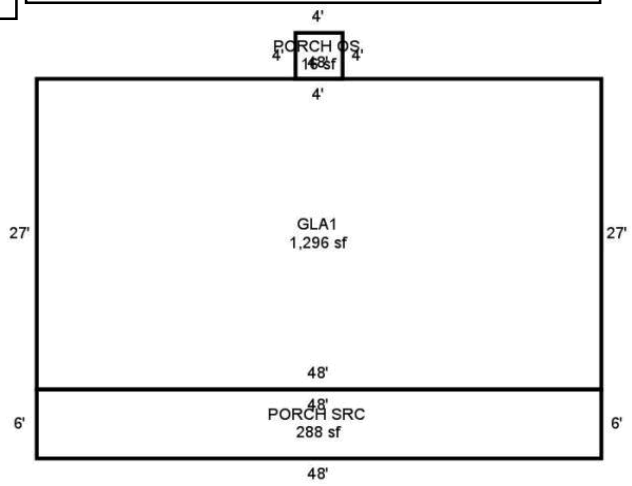
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Outbuilding Tool Shed Buildings Good Quality	0	X	900
Slab Roof Ceil	0	X	288
Standard	0	X	8
Cook Top	0	X	1
Garbage Disposal	0	X	1
Wall Oven	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1
Dishwasher	0	X	1
Range Hood Fan	0	X	1



Legal Description

PRT BLK 8 BEG 180.5N SECR TH N199.5 W256 S199.5 E256 POB LESS E25 THEREOF FOR STREET

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Tulsa County Records [OK]

Owner Information

SHERFIELD, NANETTE
.
1115 W 49TH ST
TULSA, OK 74107

Property Address

1115 W 49 ST S TULSA 000000000

Building No. 1

Account Number 280 R40925922601940

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block: **8**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$17500		$1311
Mobile	$0		$0
Total	$57000		$6270
		Exemptions	$2000
School District	T-1A	Net Assessed	$4270
School Levy	$134.51	Estimated Taxes	**$574.36**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150617	0	0/0	0
Grantor: SHERFIELD, JAMES AND NANETTE			
20150521	0	0/0	0
Grantor: SHERFIELD, NANETTE			
20071001	53000	00000/00000	38.71
Grantor: CORTEZ, BILLIE MARGARET, TRUSTEE			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4432	19305	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

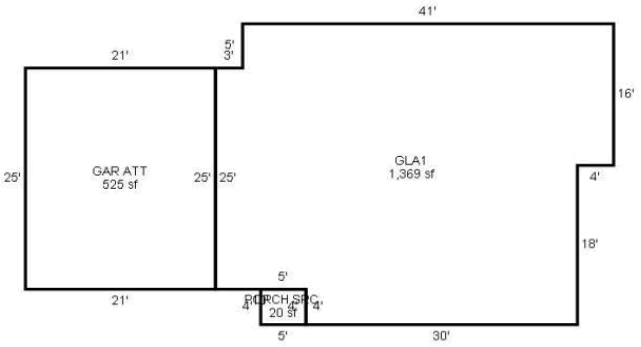
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	Drywall
Condition	Avg +		
Roof	Hip/Gable		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached		Garage SF 525
Porch	N/A		Porch SF 90
Basement	N/A		Basement SF 0
Year Built	**1953**	Eff Year Built **1953**	Year Remodeled **0**
Square Footage	**1369**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	525
Outbuilding Tool Shed Bldg Average Quality	0	X	480
Flat or Shed	0	X	400
Open Slab	0	X	70
Slab Roof Ceil	0	X	20
Standard	0	X	5
Laundry Facility	0	X	1
Fireplace Average 1 Story	0	X	1
N/A	0		0
N/A	0		0



Legal Description

PRT BLK 8 BEG 491.12E SWC TH N180.5 W85 S180.5 E85 POB LESS S5 & W25 E171.99 S180.5 LESS S5

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Tulsa County Records [OK]

Owner Information

NEWPORT, DANIEL E AND MARLA J
.
1103 W 49TH ST
TULSA, OK 741078011

Property Address

1103 W 49 ST S

Building No. 1

Account Number 281 R40925922601950

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block: **8**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$66435		$6525
Mobile	$0		$0
Total	$84872		$9336
		Exemptions	$1000
School District	T-1A	Net Assessed	$8336
School Levy	$134.51	Estimated Taxes	**$1121.28**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19880506	0	05097/02320	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design 2 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Conventional Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 380
Porch Porch: Open Slab Porch SF 24
Basement N/A Basement SF 450
Year Built **1937** Eff Year Built **1937** Year Remodeled **0**
Square Footage **1943**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4913	21400	0	0

Description N/A

Mobile Home Information

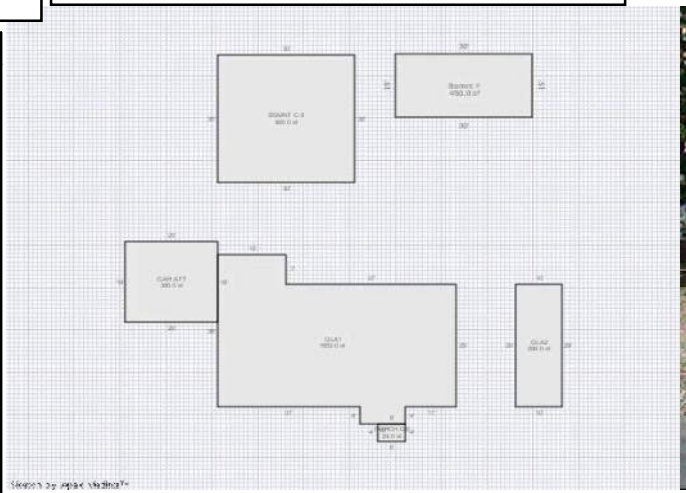
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Carport 480 Sf Patio 220 Sf	0	X	900
Bsmnt Conc 8 ft	0	X	900
Finished	0	X	450
Attached	0	X	380
Open Slab	0	X	24
Standard	0	X	7
Range Hood Fan	0	X	1
Laundry Facility	0	X	1
Dishwasher	0	X	1
Fireplace Single	0	X	1



Legal Description

E171.99 S180.5 LESS S5 & LESS E25 & LESS W25 BLK 8

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Tulsa County Records [OK]

Owner Information

1118 W 49TH ST TRUST
.
1118 W 49TH ST
TULSA, OK 741078012

Property Address

1118 W 49 ST S

Building No. 1

Account Number 282 R40925922601850

Sub Name: **SUBURBAN HIGHLANDS**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$24200		$2662
Mobile	$0		$0
Total	$90000		$9900
		Exemptions	$0
School District	T-1A	Net Assessed	$9900
School Levy	$134.51	Estimated Taxes	**$1331.65**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20151207	75000	0/0	42.35
Grantor: RSDI LP			
20150327	0	0/0	0
Grantor: SIMS, WILFORD			
20140327	1000	0/0	0.56
Grantor: ROBERSON, CHERYL J			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Avg +
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 920
Porch Porch: Slab Roof Ceil Porch SF 28
Basement N/A Basement SF 0
Year Built **1950** Eff Year Built **1950** Year Remodeled **0**
Square Footage **1771**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.7894	77945	0	0

Description N/A

Mobile Home Information

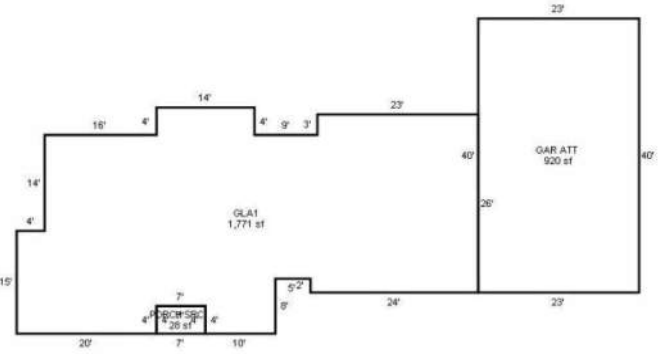
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
O Pat 667 Stg 286	0	X	1350
Attached	0	X	920
Slab Roof Ceil	0	X	28
Standard	0	X	7
Fireplace Single	0	X	2
Laundry Facility	0	X	1
Dishwasher	0	X	1
Garbage Disposal	0	X	1
N/A	0		0
N/A	0		0



Legal Description

N270 W/2 LT 2 & BEG 270S NWC LT 2 TH S110 SE264.39 TO PT 161.08E WL N319.08 W161.08 POB BLK 7

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Tulsa County Records [OK]

Owner Information

DELOZIER, JENNIFER
.
1104 W 49TH ST
TULSA, OK 74107

Property Address

1104 W 49 ST S

Building No. 1

Account Number 283 R40925922601790

Sub Name: **SUBURBAN HIGHLANDS**
Lot: **2** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$18849		$1847
Mobile	$0		$0
Total	$83430		$9177
		Exemptions	$1000
School District	T-1A	Net Assessed	$8177
School Levy	$134.51	Estimated Taxes	**$1099.89**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120608	0	0/0	0
Grantor: DENNIS, WILLIAM			
20071001	81000	00000/00000	71.3
Grantor:			
19970501	52500	05912/00333	46.21
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5358	23338	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

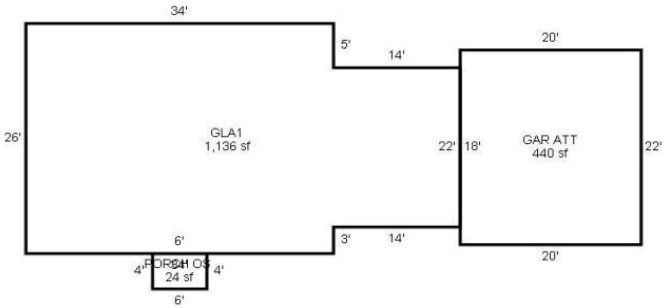
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 440
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1951** Eff Year Built **1951** Year Remodeled **0**
Square Footage **1136**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	440
Standard	0	X	7
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

N150 E/2 LT 2 LESS E5 THEREOF BLK 7

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Tulsa County Records [OK]

Owner Information

MORRIS, C PHILIP & JANICE LIVING TRUST
.
4918 S OLYMPIA
TULSA, OK 74107

Property Address

4918 S OLYMPIA AV W

Building No. 1

Account Number 284 R41000922602180

Sub Name: SUBURBAN HIGHLANDS RESUB PRT L2 B7
Lot: 7 Block: 1
Area Name: TULSA CITY
Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$74880		$7387
Mobile	$0		$0
Total	$88094		$9691
		Exemptions	$1000
School District	T-1A	Net Assessed	$8691
School Levy	$134.51	Estimated Taxes	**$1169.03**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20080708	0	0/0	0
Grantor: MORRIS, CHARLES PHILIP AND JANICE MA			
19940301	65500	05600/01021	36.47
Grantor:			
19851201	66000	04915/01256	36.75
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3395	14787	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

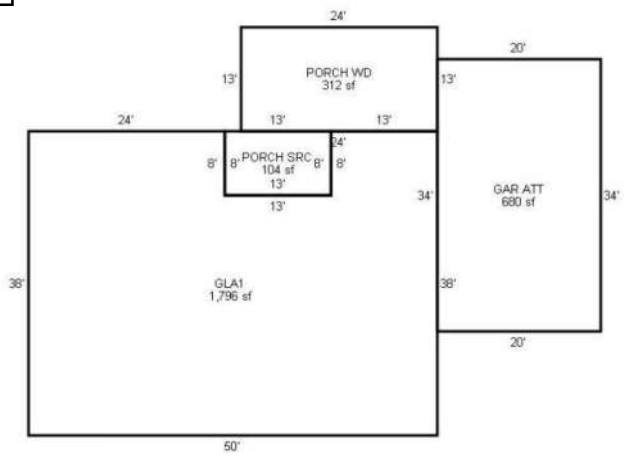
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	N/A
Condition	Good		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Brick Veneer		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 2	Total Rooms 0
Garage	Garage: Attached		Garage SF 680
Porch	Porch: Slab Roof Ceil		Porch SF 104
Basement	N/A		Basement SF 0
Year Built	**1961**	Eff Year Built **1961**	Year Remodeled **0**
Square Footage	**1796**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 0
Units	0	Rent 000	
Class Description	N/A		

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1796
Attached	0	X	680
Slab Roof Ceil	0	X	104
Standard	0	X	6
Garbage Disposal	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Dishwasher	0	X	1
Fireplace Single	0	X	1
Attic Fan with Timer	0	X	1



Legal Description

LOT 7

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Tulsa County Records [OK]

Owner Information

HYDE, NORMA J TRUSTEE
NORMA J HYDE TRUST
4926 S OLYMPIA AVE
TULSA, OK 74107

Property Address

4926 S OLYMPIA AV W

Building No. 1

Account Number 285 R41000922602170

Sub Name: SUBURBAN HIGHLANDS RESUB PRT L2 B7

Lot: 6 Block: 1

Area Name: TULSA CITY

Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$12036		$1170
Mobile	$0		$0
Total	$78357		$8619
		Exemptions	$1000
School District	T-1A	Net Assessed	$7619
School Levy	$134.51	Estimated Taxes	**$1024.83**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19980904	0	06102/01389	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3402	14820	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

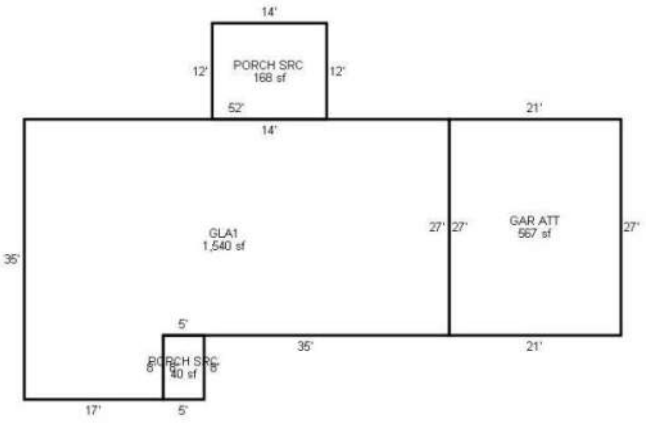
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	N/A
Condition	Good		
Roof	N/A		Composition Shingle
Exterior Wall	Frame Brick Veneer		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 2	Total Rooms 0
Garage	Garage: Attached		Garage SF 567
Porch	N/A		Porch SF 208
Basement	N/A		Basement SF 0
Year Built	**1961**	Eff Year Built **1961**	Year Remodeled **0**
Square Footage	**1540**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1540
Attached	0	X	567
Slab Roof Ceil	0	X	168
Slab Roof Ceil	0	X	40
Standard	0	X	6
Wall Oven	0	X	1
Dishwasher	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1
Garbage Disposal	0	X	1



Legal Description

LOT 6

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Tulsa County Records [OK]

Owner Information

HALL, THOMAS R & MARY M CO TTEES
THOMAS R & MARY M HALL FAMILY
TR 4934 S OLYMPIA AVE
TULSA, OK 741078028

Property Address

4934 S OLYMPIA AV W

Building No. 1

Account Number 286 R41000922602160

Sub Name: SUBURBAN HIGHLANDS RESUB PRT L2 B7
Lot: 5 Block: 1
Area Name: TULSA CITY
Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15141		$0
Mobile	$0		$0
Total	$91567		$10073
		Exemptions	$10073
School District	T-1A	Net Assessed	$0
School Levy	$134.51	Estimated Taxes	$0

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3402	14820	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070625	0	00000/00000	0
Grantor: HALL, THOMAS R			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

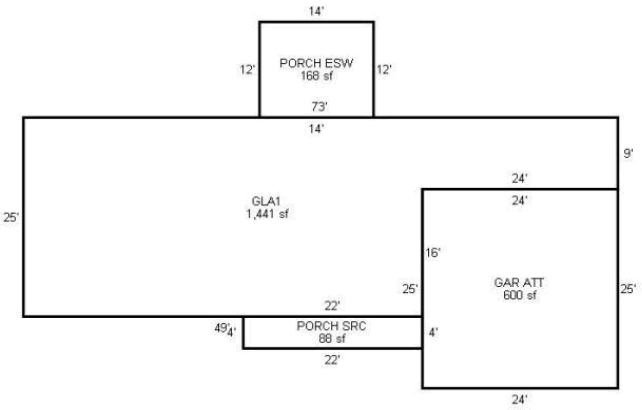
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 600
Porch N/A Porch SF 256
Basement N/A Basement SF 0
Year Built 1958 Eff Year Built 1958 Year Remodeled 0
Square Footage 1441

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1441
Attached	0	X	600
Encl Solid Wall	0	X	168
Slab Roof Ceil	0	X	88
Standard	0	X	7
Garbage Disposal	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

LOT 5

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Tulsa County Records [OK]

Owner Information

ROUDABUSH, STEPHANIE
.
2010 W H ST
JENKS, OK 740372353

Property Address

4946 S OLYMPIA AV W

Building No. 1

Account Number 287 R41000922602150

Sub Name: SUBURBAN HIGHLANDS RESUB PRT L2 B7
Lot: 4 Block: 1
Area Name: TULSA CITY
Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$70864		$6971
Mobile	$0		$0
Total	$86005		$9461
		Exemptions	$1000
School District	T-1A	Net Assessed	$8461
School Levy	$134.51	Estimated Taxes	**$1138.09**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040729	0	00000/00000	0
Grantor: ROUDABUSH, STEPHANIE DANYELLE			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3402	14820	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

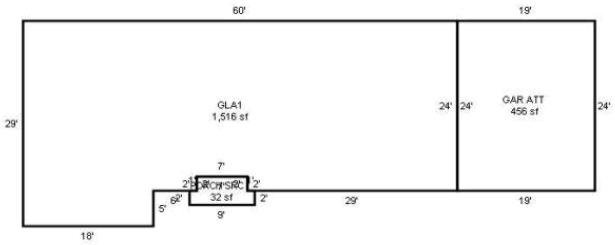
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 456
Porch Porch: Slab Roof Ceil Porch SF 32
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1516**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1516
Attached	0	X	456
Slab Roof Ceil	0	X	32
Standard	0	X	5
Range Hood Fan	0	X	1
Fireplace Single	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Garbage Disposal	0	X	1
Laundry Facility	0	X	1



Legal Description

LOT 4

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MARTINEZ, JAMES L AND APRIL S
.
4950 S OLYMPIA AV
TULSA, OK 741078028

Property Address

4950 S OLYMPIA AV W

Building No. 1

Account Number 288 R41000922602140

Sub Name: SUBURBAN HIGHLANDS RESUB PRT L2 B7
Lot: 3 Block: 1
Area Name: TULSA CITY
Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$16068		$1622
Mobile	$0		$0
Total	$111137		$12225
		Exemptions	$1000
School District	T-1A	Net Assessed	$11225
School Levy	$134.51	Estimated Taxes	**$1509.87**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.5438	23690	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19841009	0	04821/02072	0
Grantor:			
19841001	79000	00000/00000	40.83
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

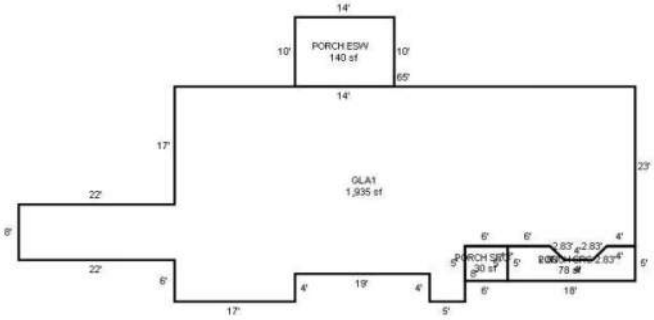
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 248
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1935**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1935
Storage Attached 308 Sf	0	X	1500
Swimming Pools 450 SF (15x30)	0	X	350
Encl Solid Wall	0	X	140
Slab Roof Ceil	0	X	108
Standard	0	X	7
Garbage Disposal	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Fireplace Single	0	X	1



Legal Description

PRT EA LTS 1 2&3 BEG NEC LT 3 TH S244.95 TO PT EL LT 1 NW296.85 N59.08 E155.84 POB

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

289

Account Number R41000922602130

Sub Name: SUBURBAN HIGHLANDS RESUB PRT L2 B7

Lot: Block:

Area Name: TULSA CITY

Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$107		$12
Mobile	$0		$0
Total	$107		$12
		Exemptions	$0
School District	T-1A	Net Assessed	$12
School Levy	$134.51	Estimated Taxes	**$1.61**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.6428	28001	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PT OF EACH LOTS 1 2 & 3 BEG SWC LOT 1 TH N 275.92 TO PT W L LOT 3 TH SE 296.85 TO E L LOT 1 TH S 90.05 W 156.05 TO BEG

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **290** **R30060923500010**

Sub Name: **OAKLEY ADDN**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$619		$68
Mobile	$0		$0
Total	$619		$68
		Exemptions	$0
School District	T-1A	Net Assessed	$68
School Levy	$134.51	Estimated Taxes	**$9.15**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.4536	63319	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19641019	0	03503/00607	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LTS 1 2 3 & N50 LT 4

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Tulsa County Records [OK]

Owner Information

SOLOMON, WAYNE AND DEBORAH
.
4901 S OLYMPIA
TULSA, OK 74107

Property Address

4901 S OLYMPIA AV W

Building No. 1

Account Number 291 R99226922638510

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$75808		$7531
Mobile	$0		$0
Total	$93833		$10322
		Exemptions	$1000
School District	T-1A	Net Assessed	$9322
School Levy	$134.51	Estimated Taxes	**$1253.9**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19980701	73500	06079/00203	50.07
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4339	18900	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

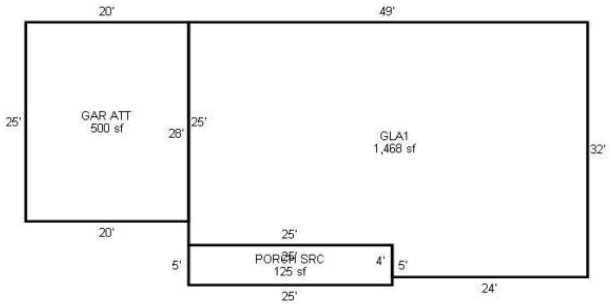
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Brick Veneer N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 500
Porch Porch: Slab Roof Ceil Porch SF 125
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **1468**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1468
Attached	0	X	500
Patio 242 Sf	0	X	200
Slab Roof Ceil	0	X	125
Standard	0	X	7
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Fireplace Single	0	X	1
Wall Oven	0	X	1



Legal Description

N165 S280 W/2 SW NE SE SW LESS N30 & W20 S135 FOR STS SEC 26 19 12 .434AC

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Tulsa County Records [OK]

Owner Information

ROBINSON, PAUL T AND ANNA MAE
.
4905 S OLYMPIA AV
TULSA, OK 741078027

Property Address

4905 S OLYMPIA AV W

Building No. 1

Account Number 292 R99226922638410

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$65914		$6431
Mobile	$0		$0
Total	$80400		$8844
		Exemptions	$1000
School District	T-1A	Net Assessed	$7844
School Levy	$134.51	Estimated Taxes	**$1055.1**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19800702	0	04482/01562	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.3696	16100	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

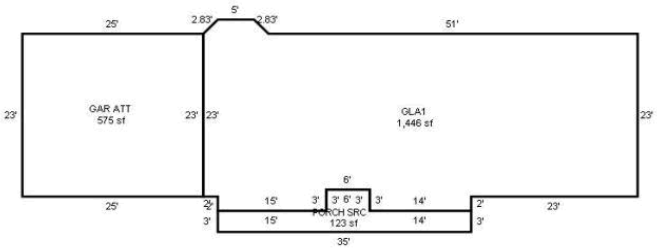
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 575
Porch Porch: Slab Roof Ceil Porch SF 123
Basement N/A Basement SF 0
Year Built **1966** Eff Year Built **1966** Year Remodeled **0**
Square Footage **1446**

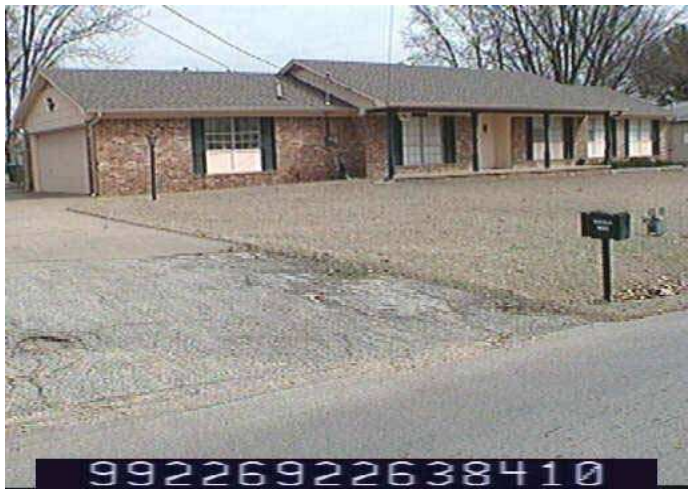
Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1446
Concrete Patio 642 Sf	0	X	600
Attached	0	X	575
Slab Roof Ceil	0	X	123
Standard	0	X	4
Dishwasher	0	X	1
Wall Oven	0	X	1
Fireplace Single	0	X	1
Garbage Disposal	0	X	1
Laundry Facility	0	X	1





Legal Description

S115 W/2 SW NE SE SW LESS W25 FOR ST SEC 26 19 12 .37AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCLENDON, JAMES T AND ROBERTA
.
4923 S OLYMPIA AVE
TULSA, OK 74107

Property Address

4923 S OLYMPIA AV W

Building No. 1

Account Number 293 R99226922640410

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$16377		$1627
Mobile	$0		$0
Total	$94245		$10366
		Exemptions	$1000
School District	T-1A	Net Assessed	$9366
School Levy	$134.51	Estimated Taxes	**$1259.82**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20050901	91500	00000/00000	67.68
Grantor: JONES, ANDREA D			
20010501	85000	06532/02683	62.87
Grantor:			
19961201	62000	05873/00500	45.86
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.32	13939	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

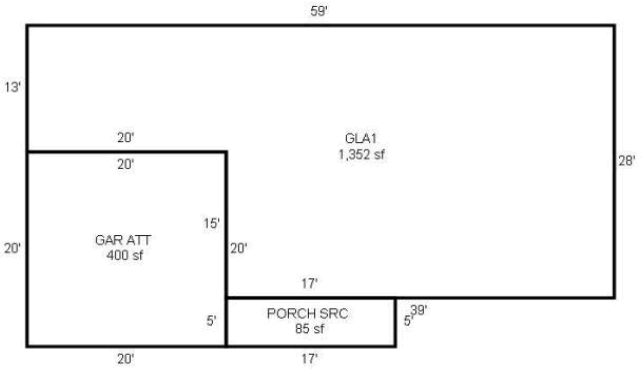
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	Drywall
Condition	Good +		
Roof	Hip/Gable		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1.1	Total Rooms 0
Garage	Garage: Attached		Garage SF 400
Porch	Porch: Slab Roof Ceil		Porch SF 85
Basement	N/A		Basement SF 0
Year Built	**1940**	Eff Year Built **1940**	Year Remodeled **0**
Square Footage	**1352**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	400
Cov Patio 200 Sf	0	X	300
Outbuilding Tool Shed Buildings Average Quality	0	X	288
Slab Roof Ceil	0	X	85
Standard	0	X	7
Range Hood Fan	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Dishwasher	0	X	1
N/A	0		0



Legal Description

N95 W/2 NW SE SE SW LESS W20 THEREOF FOR STREET SEC 26 19 12 .32AC

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Tulsa County Records [OK]

Owner Information

CARR, WILLIAM C AND JUDITH A
.
4931 S OLYMPIA AVE
TULSA, OK 74107

Property Address

4931 S OLYMPIA AV W

Building No. 1

Account Number 294 R99226922638710

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$86623		$8688
Mobile	$0		$0
Total	$95000		$10450
		Exemptions	$1000
School District	T-1A	Net Assessed	$9450
School Levy	$134.51	Estimated Taxes	**$1271.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19980901	84000	06109/02179	48.78
Grantor:			
19980801	78000	06091/01355	45.3
Grantor:			
19980801	78000	06100/00483	45.3
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.32	13939	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

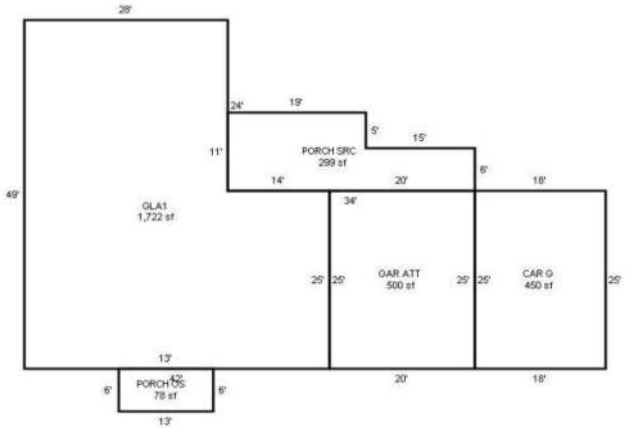
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Average	Interior Finish	Drywall
Condition	Good		
Roof	Hip/Gable		Composition Shingle
Exterior Wall	Frame Brick Veneer		N/A
Foundation	Slab	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1.1	Total Rooms 0
Garage	Garage: Attached		Garage SF 500
Porch	Porch: Slab Roof Ceil		Porch SF 299
Basement	N/A		Basement SF 0
Year Built	**1961**	Eff Year Built **1961**	Year Remodeled **0**
Square Footage	**1722**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1722
Attached	0	X	500
Gable	0	X	450
Stg 200 Sf	0	X	400
Slab Roof Ceil	0	X	299
Standard	0	X	7
Security/Fire Alarm	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Bath Heater	0	X	1



Legal Description

S95 N190 W/2 NW SE SE SW LESS W20 THEREOF FOR STREET SEC 26 19 12 .32AC

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Tulsa County Records [OK]

Owner Information

HORN, SIDNEY L
.
4939 S OLYMPIA
TULSA, OK 74107

Property Address

4939 S OLYMPIA AV W

Building No. 1

Account Number 295 R99226922638610

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10839		$755
Mobile	$0		$0
Total	$49600		$5456
		Exemptions	$2000
School District	T-1A	Net Assessed	$3456
School Levy	$134.51	Estimated Taxes	**$464.87**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.47	20473	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140509	0	0/0	0

Grantor: HORN, SIDNEY L

Sale Date	Sale Price	Book/Page	$/SF
20090717	0	0/0	0

Grantor: MATLOCK, JOE M

Sale Date	Sale Price	Book/Page	$/SF
20090717	0	0/0	0

Grantor: PAINTER, RAMONA

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

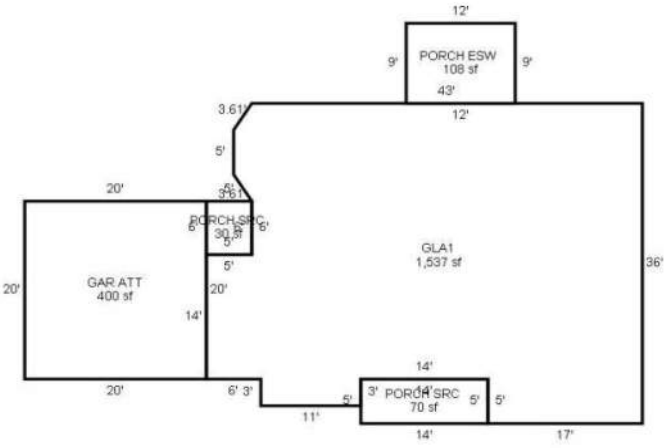
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Average Interior Finish Drywall
Condition Good
Roof Hip/Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1.1 Total Rooms 0
Garage Garage: Attached Garage SF 400
Porch N/A Porch SF 208
Basement N/A Basement SF 0
Year Built **1940** Eff Year Built **1940** Year Remodeled **0**
Square Footage **1537**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1537
Attached	0	X	400
Covered Patio 116	0	X	200
Encl Solid Wall	0	X	108
Slab Roof Ceil	0	X	100
Standard	0	X	7
Range Hood Fan	0	X	1
Wall Oven	0	X	1
Fireplace Single	0	X	1
Laundry Facility	0	X	1



Legal Description

S140 W/2 NW SE SE SW LESS W20 THEREOF FOR STREET SEC 26 19 12 .47AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CLARKSON, CHARLES A
.
4947 S OLYMPIA AVE
TULSA, OK 741078027

Property Address

4947 S OLYMPIA AV W

Building No. 1

Account Number 296 R99226922638230

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$20703		$2114
Mobile	$0		$0
Total	$127205		$13992
		Exemptions	$1000
School District	T-1A	Net Assessed	$12992
School Levy	$134.51	Estimated Taxes	**$1747.55**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000501	23000	06359/00382	10.12
Grantor:			
19951101	14500	05760/00125	6.38
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design 1½ Story Fin
Quality Fair Interior Finish Drywall
Condition Avg
Roof Gable/Hip Formed Seam Metal
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 576
Porch N/A Porch SF 700
Basement N/A Basement SF 0
Year Built **2002** Eff Year Built **2002** Year Remodeled **0**
Square Footage **2272**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.7297	31784	0	0

Description N/A

Mobile Home Information

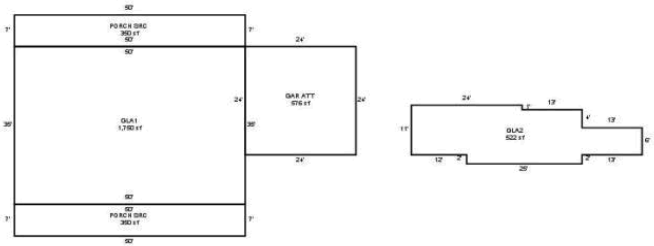
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1750
Attached	0	X	576
Slab Roof Ceil	0	X	350
Slab Roof Ceil	0	X	350
Standard	0	X	6
Bath Heater	0	X	2
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
Garage Door Opener	0	X	1
Dishwasher	0	X	1



Legal Description

W/2 SW SE SE SW LESS BEG 20E & 35N SWC SW SE SE SW TH N151.60 SE211.10 TO SECR W/2 SW SE SE SW TH W POB & LESS W20 N295 & S35 FOR STS SEC 26 19 12 .729AC

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
DEPARTMENT OF HWY R/W DIVISION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

297

Account Number **R99226922638310**

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$42		$5
Mobile	$0		$0
Total	$42		$5
		Exemptions	$0
School District	T-1A	Net Assessed	$5
School Levy	$134.51	Estimated Taxes	**$0.67**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19640611	0	03459/00023	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.2523	10991	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 20E & 35N SWC SW SE SE SW TH N151.60 SE211.10 TO SECR W/2 SW SE SE SW TH W POB SEC 26 19 12 .25AC

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Tulsa County Records [OK]

Owner Information

WINNETKA HEIGHTS BAPTIST CHURCH
OF TULSA
1003 W 49TH ST
TULSA, OK 741078325

Property Address

TULSA 741070000

Building No. 1

Account Number 298 R99226922640510

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	9.8864	430650	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19781018	0	04360/00215	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

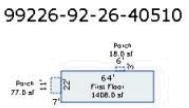
Type Commercial
Style Church
Design Church
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Electric Wall Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **1408**

Commercial Elements

Stories N/A Story Height 00 Perimeter 172
Units 0 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Sketch by Apex Medina™

Legal Description

N875 S910 E495 SE SW LESS N5 FOR ST SEC 26 19 16 9.88ACS

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Tulsa County Records [OK]

Owner Information

PUBLIC SERVICE CO OF OKLA
.
212 E 6TH ST
TULSA, OK 74119

Property Address

TULSA 741070000

Building No. **0**

Account Number **299** **R99226922642310**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.13	92783	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

W40 S2314.28 SE SEC 26 19 12

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Tulsa County Records [OK]

Owner Information

OAKLEY PROPERTIES LLC
.
4235 S 33RD WEST AVE
TULSA, OK 741075904

Property Address

4906 S MAYBELLE AV W

Building No. 1

Account Number 300 R47625922603280

Sub Name: **WINNETKA HGTS ADDN**
Lot: **1** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$48405		$5325
Mobile	$0		$0
Total	$64785		$7127
		Exemptions	$0
School District	T-1A	Net Assessed	$7127
School Levy	$134.51	Estimated Taxes	**$958.65**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120618	23500	0/0	21.96
Grantor: HANHAM, LETHA F			
19910401	43500	05313/01063	40.65
Grantor:			
19800401	30000	00000/00000	28.04
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2298	10010	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

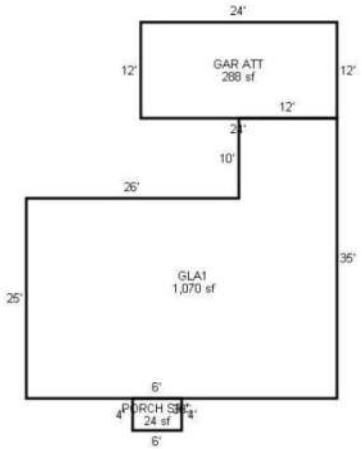
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 288
Porch Porch: Slab Roof Ceil Porch SF 24
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1070**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	288
Slab Roof Ceil	0	X	24
Standard	0	X	3
Bath Heater	0	X	2
Range Hood Fan	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
N/A	0		0



Legal Description

LT-1-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CLUBB, PEGGY LOIS LIVING TRUST
C/O PEGGY LOIS CLUBB TTEE
4910 S MAYBELLE AVE
TULSA, OK 741078338

Property Address

4910 S MAYBELLE AV W

Building No. 1

Account Number 301 R47625922603290

Sub Name: **WINNETKA HGTS ADDN**
Lot: **2** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$76014		$7534
Mobile	$0		$0
Total	$91773		$10095
		Exemptions	$1000
School District	T-1A	Net Assessed	$9095
School Levy	$134.51	Estimated Taxes	**$1223.37**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160405	0	0/0	0

Grantor: CLUBB, JIMMIE D

Sale Date	Sale Price	Book/Page	$/SF
20160405	0	0/0	0

Grantor: CLUBB, PEGGY LOIS

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

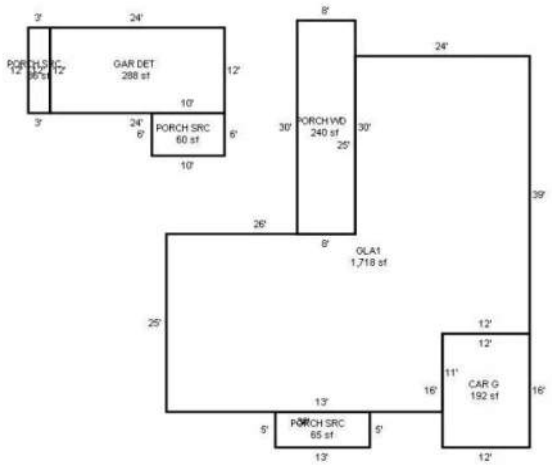
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Detached Garage SF 288
Porch N/A Porch SF 161
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1718**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	288
Gable	0	X	192
Open Patio 144 Sf	0	X	140
Slab Roof Ceil	0	X	96
Slab Roof Ceil	0	X	65
Standard	0	X	6
Bath Heater	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1
Range Hood Fan	0	X	1



Legal Description

LOT-2-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

COCHRAN, HELGA
.
4916 S MAYBELLE AVE
TULSA, OK 74107

Property Address

4916 S MAYBELLE AV W

Building No. 1

Account Number 302 R47625922603300

Sub Name: **WINNETKA HGTS ADDN**
Lot: **3** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15300		$1418
Mobile	$0		$0
Total	$57800		$6358
		Exemptions	$1000
School District	T-1A	Net Assessed	$5358
School Levy	$134.51	Estimated Taxes	**$720.7**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19970801	46000	05945/00998	49.3
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 28
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **933**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

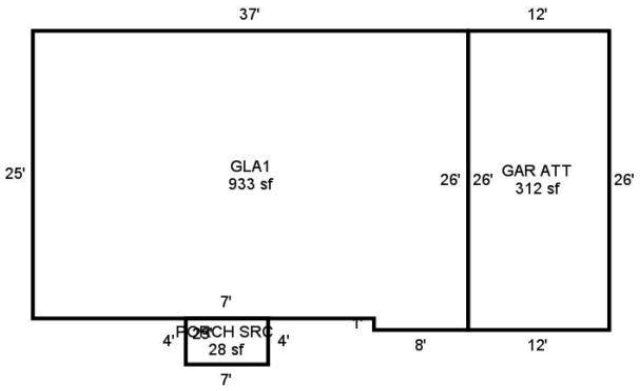
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Concrete Patio 192 Sf	0	X	200
Slab Roof Ceil	0	X	28
Standard	0	X	3
Garbage Disposal	0	X	1
Bath Heater	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Range Hood Fan	0	X	1
Dishwasher	0	X	1



Legal Description

LT-3-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

CARPENTER, CLARA D
.
4920 S MAYBELLE AVE
TULSA, OK 74107

Property Address

4920 S MAYBELLE AV W

Building No. 1

Account Number 303 R47625922603310

Sub Name: **WINNETKA HGTS ADDN**
Lot: **4** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$34908		$2372
Mobile	$0		$0
Total	$47564		$5232
		Exemptions	$2000
School District	T-1A	Net Assessed	$3232
School Levy	$134.51	Estimated Taxes	**$434.74**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19970422	0	05906/02651	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

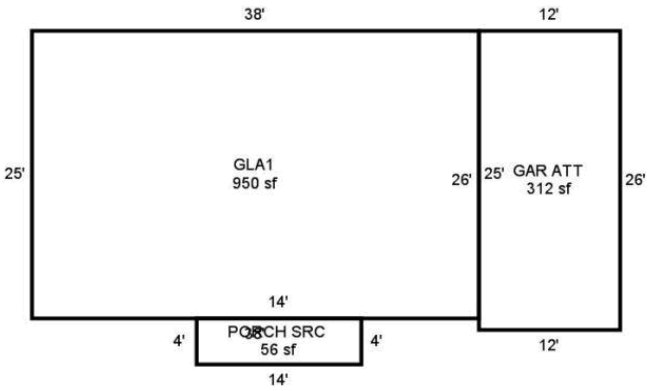
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat None Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 56
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **950**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Slab Roof Ceil	0	X	56
Standard	0	X	3
Wall Oven	0	X	1
Dishwasher	0	X	1
Garbage Disposal	0	X	1
Bath Heater	0	X	1
Range Hood Fan	0	X	1
Laundry Facility	0	X	1
N/A	0		0



Legal Description

LT-4-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

STONE, GENIE M

.

4926 S MAYBELLE AVE

TULSA, OK 74107

Property Address

4926 S MAYBELLE AV W TULSA 000000000

Building No. 1

Account Number 304 R47625922603320

Sub Name: **WINNETKA HGTS ADDN**

Lot: **5** Block: **7**

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$61491		$5968
Mobile	$0		$0
Total	$77250		$8497
		Exemptions	$1000
School District	T-1A	Net Assessed	$7497
School Levy	$134.51	Estimated Taxes	**$1008.42**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100622	75000	0/0	81.08
Grantor:	WINTERS, JOE N TRUSTEE JOE & KARLEE		
Sale Date	Sale Price	Book/Page	$/SF
20060518	0	00000/00000	0
Grantor:	WINTERS, JOE N		
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Plus Interior Finish Drywall

Condition Good +

Roof Gable/Hip Composition Shingle

Exterior Wall FrameSiding/MasonryVeneer N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1 Total Rooms 0

Garage Garage: Attached Garage SF 338

Porch N/A Porch SF 224

Basement N/A Basement SF 0

Year Built **1956** Eff Year Built **1956** Year Remodeled **0**

Square Footage **925**

Commercial Elements

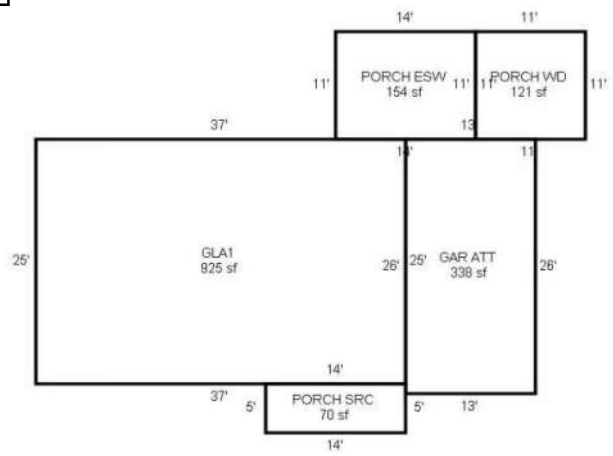
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	338
Encl Solid Wall	0	X	154
Utility Wood	0	X	100
Slab Roof Ceil	0	X	70
Standard	0	X	5
Range Hood Fan	0	X	1
Bath Heater	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Security/Fire Alarm	0	X	1



Legal Description

LT-5-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

ELLINGTON, JUSTIN
.
13230 HOBBS CREEK DR
COLLINSVILLE, OK 74021

Property Address

4932 S MAYBELLE AV W

Building No. 1

Account Number 305 R47625922603330

Sub Name: **WINNETKA HGTS ADDN**
Lot: **6** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$52633		$5020
Mobile	$0		$0
Total	$68392		$7523
		Exemptions	$1000
School District	T-1A	Net Assessed	$6523
School Levy	$134.51	Estimated Taxes	**$877.41**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20000501	56000	06363/02683	60.54
Grantor:			
19971201	47500	05990/02280	51.35
Grantor:			
19920501	42000	05402/02369	45.41
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage N/A Garage SF 818
Porch Porch: Slab Roof Ceil Porch SF 70
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **925**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

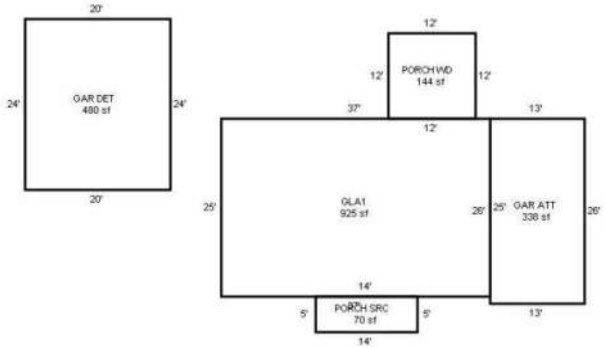
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	480
Attached	0	X	338
Concrete Patio 207 Sf	0	X	200
Slab Roof Ceil	0	X	70
Standard	0	X	3
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Wall Oven	0	X	1
Garbage Disposal	0	X	1
Laundry Facility	0	X	1



Legal Description

LT-6-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BORK, ADAM J AND PATRICIA L
.
6121 W. 39TH ST.
TULSA, OK 74107

Property Address

4936 S MAYBELLE AV W

Building No. 1

Account Number 306 R47625922603340

Sub Name: **WINNETKA HGTS ADDN**

Lot: **7** Block: **7**

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$44520		$4897
Mobile	$0		$0
Total	$60585		$6664
		Exemptions	$0
School District	T-1A	Net Assessed	$6664
School Levy	$134.51	Estimated Taxes	**$896.37**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19960701	42000	05824/02079	45.02
Grantor:			
19830401	40500	00000/00000	43.41
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **933**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

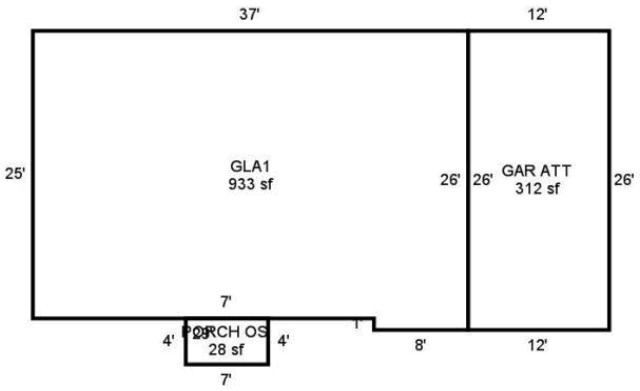
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Stg 60 Sf Open Patio 320 Sf	0	X	450
Attached	0	X	312
Standard	0	X	3
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
Bath Heater	0	X	1
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Wall Oven	0	X	1
N/A	0		0



Legal Description

LT-7-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

MCDEVITT, PEGGY JO TRUSTEE PEGGY
JO MCDEVITT REV TRUST
4845 S 27TH WEST AVE
TULSA, OK 74107

Property Address

4942 S MAYBELLE AV W

Building No. 1

Account Number 307 R47625922603350

Sub Name: **WINNETKA HGTS ADDN**
Lot: **8** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$16065		$1767
Mobile	$0		$0
Total	$62790		$6907
		Exemptions	$0
School District	T-1A	Net Assessed	$6907
School Levy	$134.51	Estimated Taxes	**$929.06**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110316	0	0/0	0
Grantor: MCDEVITT, PEGGY JO			
20050223	0	00000/00000	0
Grantor: MCDEVITT, PATRICIA			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 75
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **950**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

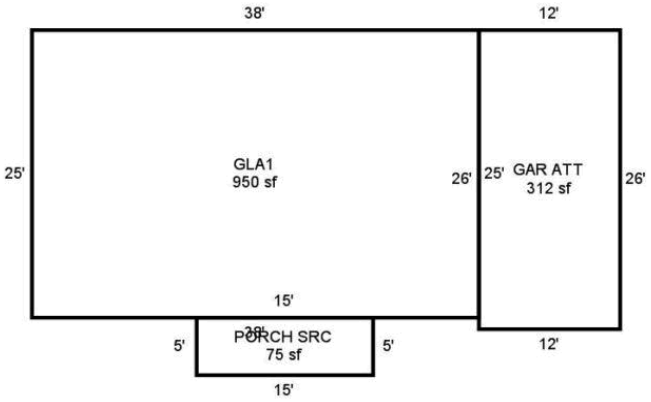
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Concrete Patio 196 Sf	0	X	200
Slab Roof Ceil	0	X	75
Standard	0	X	3
Dishwasher	0	X	1
Garbage Disposal	0	X	1
Wall Oven	0	X	1
Laundry Facility	0	X	1
Bath Heater	0	X	1
Attic Fan with Timer	0	X	1



Legal Description

LT-8-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

PETERSEN, NEAL E
.
4946 S MAYBELLE AVE
TULSA, OK 74107

Property Address

4946 S MAYBELLE AV W TULSA 741070000

Building No. 1

Account Number 308 R47625922603360

Sub Name: **WINNETKA HGTS ADDN**
Lot: **9** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$51135		$5625
Mobile	$0		$0
Total	$67200		$7392
		Exemptions	$0
School District	T-1A	Net Assessed	$7392
School Levy	$134.51	Estimated Taxes	**$994.3**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20140327	64000	0/0	67.37
Grantor: MARTIN, FRED LEE AND SANDRA C			
20011001	55000	06620/00966	57.89
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

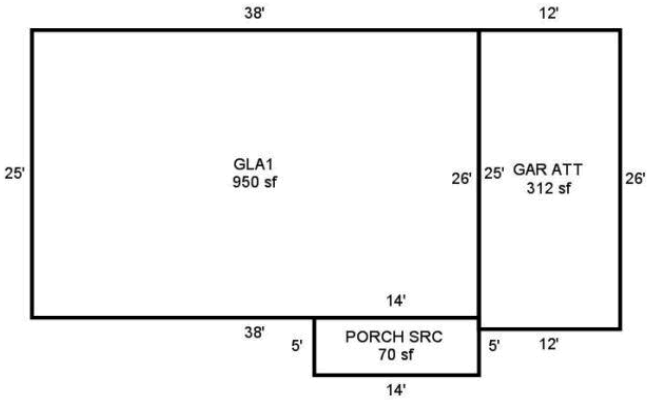
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 70
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **950**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Slab Roof Ceil	0	X	70
Standard	0	X	5
Bath Heater	0	X	1
Dishwasher	0	X	1
Attic Fan with Timer	0	X	1
Range Hood Fan	0	X	1
Wall Oven	0	X	1
Garbage Disposal	0	X	1
Laundry Facility	0	X	1



Legal Description

LT 9 BLK 7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

DEAN, LUCAS ADAM
.
4952 S MAYBELLE AVE
TULSA, OK 74107

Property Address

4952 S MAYBELLE AV W

Building No. 1

Account Number 309 R47625922603370

Sub Name: **WINNETKA HGTS ADDN**
Lot: **10** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$47145		$5186
Mobile	$0		$0
Total	$63210		$6953
		Exemptions	$0
School District	T-1A	Net Assessed	$6953
School Levy	$134.51	Estimated Taxes	**$935.25**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160113	45500	0/0	47.89
Grantor: SALTER, SHIRLEY JEAN & LIANA DENISE, C			
20130802	0	0/0	0
Grantor: SALTER, SHIRLEY			
20130603	0	0/0	0
Grantor: SALTER, KENNETH R			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 75
Basement N/A Basement SF 0
Year Built **1957** Eff Year Built **1957** Year Remodeled **0**
Square Footage **950**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

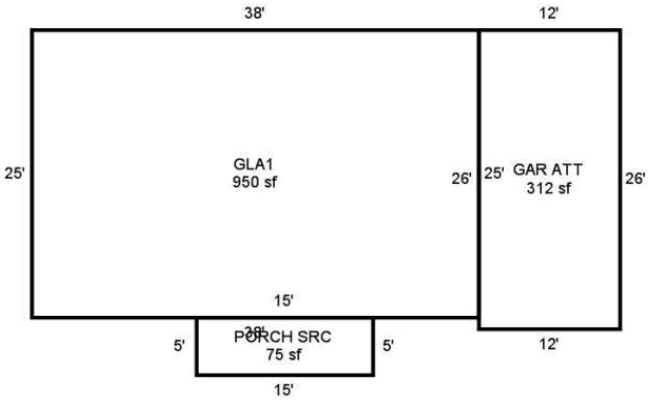
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Slab Roof Ceil	0	X	75
Standard	0	X	3
Range Hood Fan	0	X	1
Wall Oven	0	X	1
Dishwasher	0	X	1
Bath Heater	0	X	1
Attic Fan with Timer	0	X	1
Laundry Facility	0	X	1
Garbage Disposal	0	X	1



Legal Description

LT-10-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

WILLIAMS, JANELLE L
.
4956 S MAYBELLE AVE
TULSA, OK 74107

Property Address

4956 S MAYBELLE AV W

Building No. 1

Account Number 310 R47625922603380

Sub Name: **WINNETKA HGTS ADDN**
Lot: **11** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15759		$1526
Mobile	$0		$0
Total	$76220		$8384
		Exemptions	$1000
School District	T-1A	Net Assessed	$7384
School Levy	$134.51	Estimated Taxes	**$993.22**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20121016	0	0/0	0
Grantor: WILLIAMS, JANELLE L			
20120504	74000	0/0	79.31
Grantor: BUNCH, THOMAS RICHARD II AND DENISE			
19950419	0	05706/02683	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

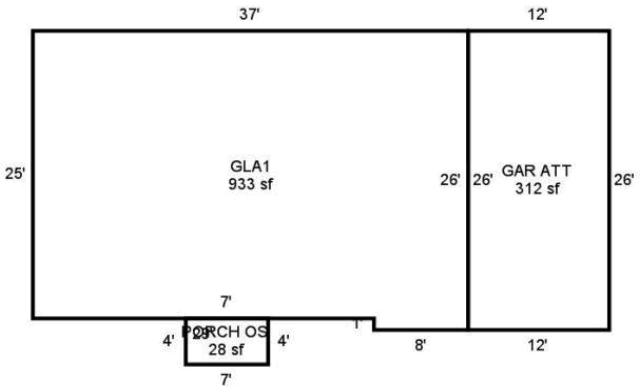
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **933**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Dek 144	0	X	200
Standard	0	X	3
Range Hood Fan	0	X	1
Security/Fire Alarm	0	X	1
Bath Heater	0	X	1
Laundry Facility	0	X	1
Garbage Disposal	0	X	1
Dishwasher	0	X	1
Wall Oven	0	X	1



Legal Description

LT-11-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

STOTTLEMYRE, ANDREW
.
4962 S MAYBELLE AVE
TULSA, OK 74107

Property Address

4962 S MAYBELLE AV W TULSA 000000000

Building No. 1

Account Number 311 R47625922603390

Sub Name: **WINNETKA HGTS ADDN**
Lot: **12** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$68200		$7502
Mobile	$0		$0
Total	$83500		$9185
		Exemptions	$0
School District	T-1A	Net Assessed	$9185
School Levy	$134.51	Estimated Taxes	**$1235.47**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150228	83500	0/0	87.89
Grantor: DIAS, DAVID			
20080501	83500	00000/00000	87.89
Grantor: FRANKS, CORINNE P			
19960801	43000	05841/00085	45.26
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.191	8320	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

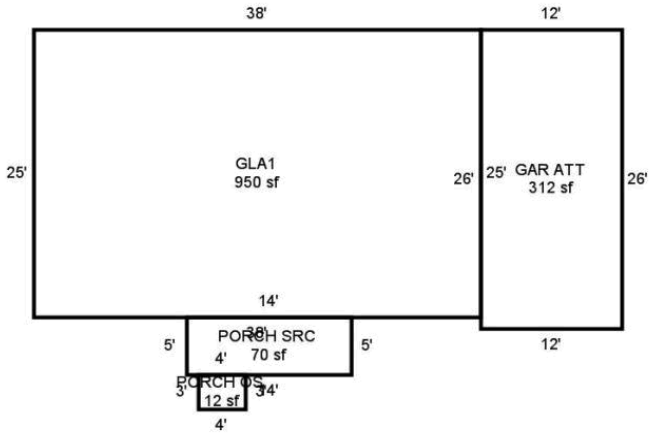
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 70
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **950**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Metal Carport 240 Sf	0	X	400
Attached	0	X	312
Slab Roof Ceil	0	X	70
Standard	0	X	5
Laundry Facility	0	X	1
Dishwasher	0	X	1
Attic Fan with Timer	0	X	1
Range Hood Fan	0	X	1
Security/Fire Alarm	0	X	1
Garbage Disposal	0	X	1



Legal Description

LT-12-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

4968 S MAYBELLE AVE LAND TRUST, THE
.
PO BOX 570992
TULSA, OK 74157

Property Address

4968 S MAYBELLE AV W TULSA 000000000

Building No. 1

Account Number: 312 R47625922603400

Sub Name: **WINNETKA HGTS ADDN**
Lot: **13** Block: **7**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$28875		$3176
Mobile	$0		$0
Total	$45150		$4966
		Exemptions	$0
School District	T-1A	Net Assessed	$4966
School Levy	$134.51	Estimated Taxes	**$667.98**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130215	0	0/0	0
Grantor: WHELAN, STEVEN			
20120403	0	0/0	0
Grantor: FEDERAL HOME LOAN MTG CORP			
20120125	0	0/0	0
Grantor: TULSA COUNTY SHERIFF			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2238	9750	0	0

Description: N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

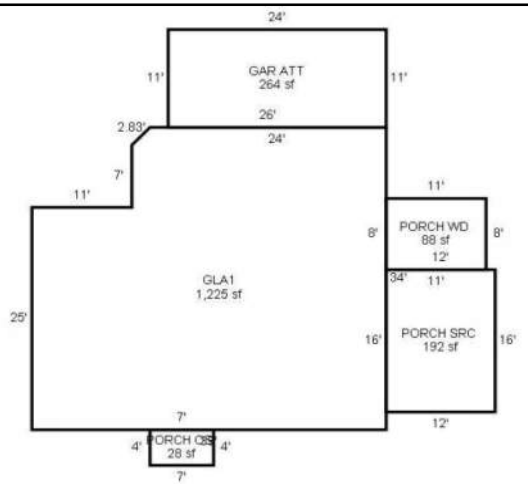
Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair Plus	Interior Finish	N/A
Condition	Avg +		
Roof	N/A		Composition Shingle
Exterior Wall	FrameSiding/MasonryVeneer		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	Cool Air in Heat Ducts	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	Garage: Attached	Garage SF	264
Porch	Porch: Slab Roof Ceil	Porch SF	192
Basement	N/A	Basement SF	0
Year Built	**1956**	Eff Year Built **1956**	Year Remodeled **0**
Square Footage	**1225**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	264
Patio 154 Sf	0	X	200
Slab Roof Ceil	0	X	192
Standard	0	X	3
Bath Heater	0	X	1
Security/Fire Alarm	0	X	1
Laundry Facility	0	X	1
Wall Oven	0	X	1
Dishwasher	0	X	1
Range Hood Fan	0	X	1



Legal Description

LT-13-BLK-7

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

BAKER, SHELTON

.

4967 S MAYBELLE AVE

TULSA, OK 74107

Property Address

4967 S MAYBELLE AV W

Building No. 1

Account Number 313 R47625922603150

Sub Name: **WINNETKA HGTS ADDN**

Lot: **14** Block: **6**

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$15600		$1543
Mobile	$0		$0
Total	$100000		$11000
		Exemptions	$1000
School District	T-1A	Net Assessed	$10000
School Levy	$134.51	Estimated Taxes	**$1345.1**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20150409	68000	0/0	36.88
Grantor:	POWELL, JOHN B AND GRACE E		
20070301	90000	00000/00000	48.81
Grantor:	MEYER, LYNDA G		
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2273	9900	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Plus Interior Finish Drywall

Condition Good +

Roof Hip/Gable Composition Shingle

Exterior Wall FrameSiding/MasonryVeneer N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1.1 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1956** Eff Year Built **1956** Year Remodeled **0**

Square Footage **1844**

Commercial Elements

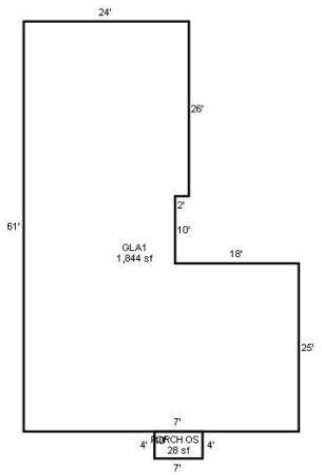
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Patio 180 Sf	0	X	200
Standard	0	X	7
Dishwasher	0	X	1
Garbage Disposal	0	X	1
Bath Heater	0	X	1
Wall Oven	0	X	1
Range Hood Fan	0	X	1
Laundry Facility	0	X	1
N/A	0		0
N/A	0		0



Legal Description

LT-14-BLK-6

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

SIMMONS, RANDLE A & TAMARA D
.
4962 S LAWTON AVE
TULSA, OK 74107

Property Address

4962 S LAWTON AV W TULSA 000000000

Building No. 1

Account Number 314 R47625922603130

Sub Name: **WINNETKA HGTS ADDN**
Lot: **12** Block: **6**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$68701		$6744
Mobile	$0		$0
Total	$84460		$9290
		Exemptions	$1000
School District	T-1A	Net Assessed	$8290
School Levy	$134.51	Estimated Taxes	**$1115.09**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20091106	82000	0/0	87.89
Grantor: T-TOWN HOME INVESTMENTS INC			
20090702	41000	0/0	43.94
Grantor: TULSA COUNTY SHERIFF			
19810420	0	04539/01447	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1939	8448	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

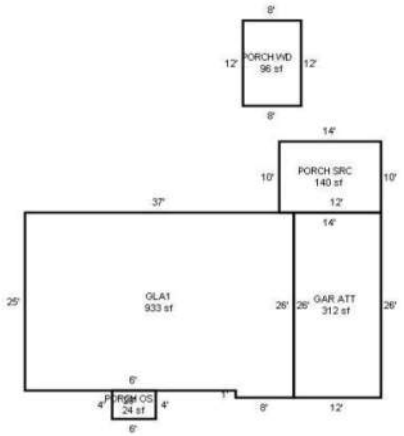
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Good +
Roof Gable/Hip Composition Shingle
Exterior Wall FrameSiding/MasonryVeneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 312
Porch Porch: Slab Roof Ceil Porch SF 140
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **933**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	312
Slab Roof Ceil	0	X	140
Standard	0	X	3
Garbage Disposal	0	X	1
Laundry Facility	0	X	1
Dishwasher	0	X	1
Bath Heater	0	X	1
Range Hood Fan	0	X	1
Wall Oven	0	X	1
N/A	0		0



Legal Description

LT-12-BLK-6

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

HALL, JEREMY D

.

4968 S LAWTON AVE

TULSA, OK 74107

Property Address

4968 S LAWTON AV W

Building No. 1

Account Number 315 R47625922603140

Sub Name: **WINNETKA HGTS ADDN**

Lot: **13** Block: **6**

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$50882		$4837
Mobile	$0		$0
Total	$66950		$7364
		Exemptions	$1000
School District	T-1A	Net Assessed	$6364
School Levy	$134.51	Estimated Taxes	**$856.02**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110624	65000	0/0	60.75
Grantor:	SALDIVAR, JUAN		
20100212	48500	0/0	45.33
Grantor:	WOLFF, JENNIFER AND JAMES		
20051201	79500	00000/00000	74.3
Grantor:	WINFIELD, BARBARA S		

Building Elements

Type Residential

Style Single Family Residential *CODE

Design Ranch 1 Story

Quality Fair Plus Interior Finish Drywall

Condition Good +

Roof Gable/Hip Composition Shingle

Exterior Wall FrameSiding/MasonryVeneer N/A

Foundation Crawl Space Fireplace N/A

Heat Cool Air in Heat Ducts Air N/A

Beds 0 Baths 1 Total Rooms 0

Garage Garage: Attached Garage SF 288

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1956** Eff Year Built **1956** Year Remodeled **0**

Square Footage **1070**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2273	9900	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Commercial Elements

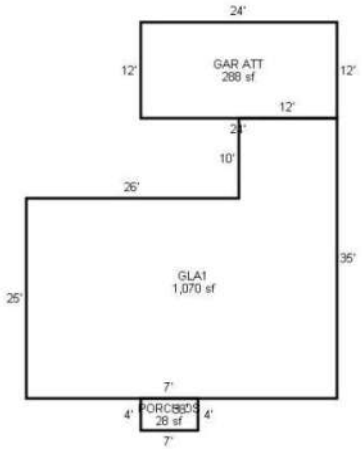
Stories N/A Story Height 00 Perimeter 0

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	288
Concrete Patio 120 Sf	0	X	100
Standard	0	X	3
Wall Oven	0	X	1
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Laundry Facility	0	X	1
Bath Heater	0	X	1
Garbage Disposal	0	X	1
N/A	0		0



Legal Description

LT-13-BLK-6

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

TALLEY, BRICE AND CAROLYN
.
4967 S LAWTON AV
TULSA, OK 741078333

Property Address

4967 S LAWTON AV W

Building No. 1

Account Number 316 R47625922603000

Sub Name: **WINNETKA HGTS ADDN**
Lot: **13** Block: **5**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$63139		$6145
Mobile	$0		$0
Total	$78898		$8678
		Exemptions	$1000
School District	T-1A	Net Assessed	$7678
School Levy	$134.51	Estimated Taxes	**$1032.77**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish N/A
Condition Good +
Roof N/A Composition Shingle
Exterior Wall Frame Masonry Veneer N/A
Foundation Crawl Space Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 1 Total Rooms 0
Garage Garage: Attached Garage SF 391
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1956** Eff Year Built **1956** Year Remodeled **0**
Square Footage **1426**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.1928	8400	0	0

Description N/A

Mobile Home Information

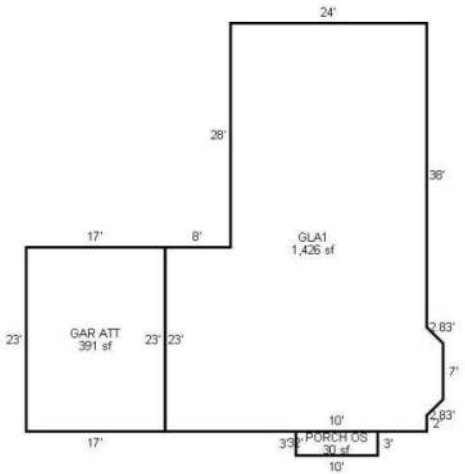
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Attached	0	X	391
Concrete Patio 224 Sf	0	X	200
Standard	0	X	3
Dishwasher	0	X	1
Range Hood Fan	0	X	1
Garbage Disposal	0	X	1
Laundry Facility	0	X	1
Wall Oven	0	X	1
Bath Heater	0	X	1
N/A	0		0



Legal Description

LT-13-BLK-5 LESS TRACT 10'X 20 NEAR SE.COR.

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

SMITH, JOSEPH D

.

207 N 111TH EAST AVE APT 324

TULSA, OK 741163427

Property Address

Building No. **0**

Account Number **317** **R36840922646150**

Sub Name: **ROYAL MANOR SOUTH**

Lot: **1** Block: **3**

Area Name: **TULSA CITY**

Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$122		$13
Mobile	$0		$0
Total	$122		$13
		Exemptions	$0
School District	T-1A	Net Assessed	$13
School Levy	$134.51	Estimated Taxes	**$1.75**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20100614	0	0/0	0

Grantor: TULSA COUNTY TREASURER

Sale Date	Sale Price	Book/Page	$/SF
19850918	0	04892/02551	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Building Elements

Type N/A

Style N/A

Design N/A

Quality N/A Interior Finish N/A

Condition N/A

Roof N/A N/A

Exterior Wall N/A N/A

Foundation N/A Fireplace N/A

Heat N/A Air N/A

Beds 0 Baths 0 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **0** Eff Year Built **0** Year Remodeled **0**

Square Footage **0**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.4722	20567	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000

Units 0 Rent 000

Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LT 1 BLK 3

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Tulsa County Records [OK]

Owner Information

PUBLIC SERVICE CO OF OKLA
.
212 E 6TH ST
TULSA, OK 74119

Property Address

TULSA 741070000

Building No. 0

Account Number 318 R47625922603010

Sub Name: WINNETKA HGTS ADDN
Lot: Block:
Area Name: TULSA CITY
Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0055	238	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PT LT 13 BLK 5 BEG 10 W OF SEC LT 13 ON S LINE N 20 W 10 S 20 E 10 TO BEG

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **319** **R99226922638325**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.4392	106250	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

W20 W165 SE SE SW & W25 W165 NE SE SW & E25 & W25 S330 W330 E495 N1690 SW & W25 S264 E165 N1690 SW & N45 E140 W165 S955 E/2 E/2 SW & N50 S955 E495 SW & S35 E640 SW SEC 26 19 12

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

320

Account Number **R99235923522830**

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.4773	20790	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19330131	0	01045/00542	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE NW BEG NEC NE NW TH S35 W594 N35 E594 POB SEC 35 19 12 0.48AC

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

321

Account Number **R99235923511630**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.35	15246	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N35 W440 NE SEC 35 19 12 .35AC

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Tulsa County Records [OK]

Owner Information

RED FORK MASONIC LODGE NO 505
.
1030 W 51ST ST
TULSA, OK 74107

Property Address

Building No. 0

Account Number 322 R99235923523840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$8500		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.13	5662	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE NW BEG 396W & 35S NEC NW TH S96 NW154.2 E119.42 POB SEC 35 19 12 0.13AC

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Tulsa County Records [OK]

Owner Information

RED FORK LODGE NO 505
A F & A M
1030 W 51ST ST S
TULSA, OK 741078327

Property Address

1030 W 51 ST S TULSA 741078327

Building No. 1

Account Number 323 R99235923522440

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$51000		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	0.7804	33996	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Fellowship Halls
Design Office Building
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1953** Eff Year Built **1953** Year Remodeled **0**
Square Footage **4891**

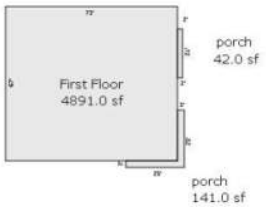
Commercial Elements

Stories N/A Story Height 00 Perimeter 280
Units 0 Rent 000
Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt employee parking	0	X	15806
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

99235-92-35-22440



Legal Description

PRT NE NW BEG 198W NEC NW TH S276 W77 N11 W121 N265 E198 POB LESS BEG 396W & 169.03S NEC NW TH S95.97 E121 S11 E77 N56 W94.66 NW115.75 POB & LESS N35 THEREOF FOR ST SEC 35

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Tulsa County Records [OK]

Owner Information

WEINSTOCK, JOEL
.
5800 S LEWIS STE 137
TULSA, OK 74105

Property Address

1010 W 51 ST S TULSA 741070000

Building No. 1

Account Number 324 R99235923522740

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$31800		$3498
Mobile	$0		$0
Total	$63000		$6930
		Exemptions	$0
School District	T-1A	Net Assessed	$6930
School Levy	$134.51	Estimated Taxes	**$932.15**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.8409	36630	0	0

Description N/A

Miscellaneous Structures

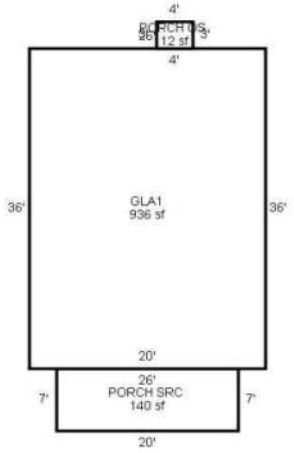
Description	Yrblt	LxW	Units
Garage Stg 480 Sf	0	X	3000
Slab Roof Ceil	0	X	140
Standard	0	X	3
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20071107	0	00000/00000	0
Grantor: VISION REAL ESTATE CO			
20010801	63000	06580/02342	67.31
Grantor:			
19900801	40000	05273/00024	42.74
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Residential		
Style	Single Family Residential *CODE		
Design	Ranch 1 Story		
Quality	Fair	Interior Finish	Drywall
Condition	Avg +		
Roof	Gable		Composition Shingle
Exterior Wall	Frame Siding		N/A
Foundation	Crawl Space	Fireplace	N/A
Heat	None	Air	N/A
Beds	0	Baths 1	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	Porch: Slab Roof Ceil		Porch SF 140
Basement	N/A		Basement SF 0
Year Built	**1935**	Eff Year Built **1935**	Year Remodeled **0**
Square Footage	**936**		

Commercial Elements

Stories	N/A	Story Height	00	Perimeter	0
Units	0	Rent	000		
Class Description	N/A				

Legal Description

PRT NE NW BEG 35S NEC NW TH W198 S185 E198 N185 POB SEC 35 19 12 0.84AC

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

TULSA 741070000

Taxable Market		Assessed Value
Land	$0	$0
Improved	$2000	$0
Mobile	$0	$0
Total	$	$
	Exemptions	$
School District T-1A	Net Assessed	$
School Levy $134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.3098	13495	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. **0**

Account Number **R99235923511440**

325

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **35** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20110322	0	0/0	0
Grantor: RONGEY, PAUL AND JOHN A SMITH			
20030301	469000	06982/00768	0
Grantor:			
20000701	9000	06396/01173	0
Grantor:			

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Legal Description

W65 W440 NE LYING N OF HWY 44 LESS N35 FOR RD THEREOF SEC 35 19 12 .31AC

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Tulsa County Records [OK]

Owner Information

RONGEY, PAUL AND JOHN A SMITH
.
4915 S UNION AVE
TULSA, OK 74107

Property Address

908 W 51 ST S TULSA 741070000

Building No. 1

Account Number 326 R99235923511492

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$11200		$1232
Mobile	$0		$0
Total	$167000		$18370
		Exemptions	$0
School District	T-1A	Net Assessed	$18370
School Levy	$134.51	Estimated Taxes	**$2470.95**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030301	469000	06982/00768	191.58
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Duplex
Style Duplex *CODE
Design Duplex One Story
Quality Average Interior Finish Drywall
Condition Avg
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 484
Porch Porch: Slab Roof Ceil Porch SF 156
Basement N/A Basement SF 0
Year Built **2002** Eff Year Built **2002** Year Remodeled **0**
Square Footage **2448**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2611	11374	0	0

Description N/A

Mobile Home Information

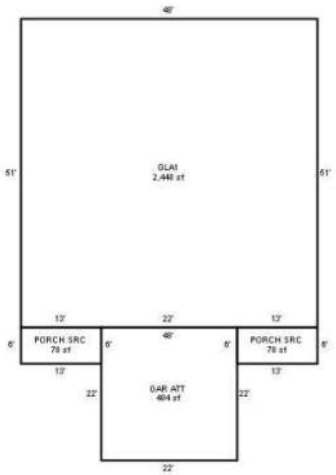
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 2 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	2448
Attached	0	X	484
Slab Roof Ceil	0	X	156
Standard	0	X	6
Garage Door Opener	0	X	2
Range Hood Fan	0	X	2
Bath Heater	0	X	2
Garbage Disposal	0	X	2
Dishwasher	0	X	2
Laundry Facility	0	X	1



Legal Description

E60 W125 W440 NE LYING N OF HWY 44 LESS N35 THEREOF FOR RD SEC 35 19 12 .261AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

RONGEY, PAUL AND JOHN A SMITH
.
4915 S UNION AVE
TULSA, OK 74107

Property Address

904 W 51 ST S TULSA 741070000

Building No. 1

Account Number 327 R99235923511518

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$155800		$17138
Mobile	$0		$0
Total	$165200		$18172
		Exemptions	$0
School District	T-1A	Net Assessed	$18172
School Levy	$134.51	Estimated Taxes	**$2444.32**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030301	469000	06982/00768	191.58
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Duplex
Style Duplex *CODE
Design Duplex One Story
Quality Average Interior Finish Drywall
Condition Avg
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 484
Porch Porch: Slab Roof Ceil Porch SF 156
Basement N/A Basement SF 0
Year Built **2002** Eff Year Built **2002** Year Remodeled **0**
Square Footage **2448**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2178	9488	0	0

Description N/A

Mobile Home Information

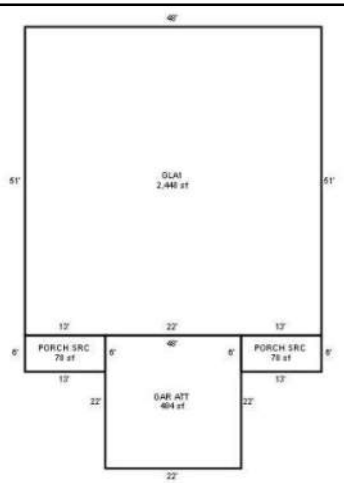
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 2 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	2448
Attached	0	X	484
Slab Roof Ceil	0	X	156
Standard	0	X	6
Garage Door Opener	0	X	2
Range Hood Fan	0	X	2
Bath Heater	0	X	2
Garbage Disposal	0	X	2
Dishwasher	0	X	2
Laundry Facility	0	X	1



Legal Description

E61.50 W248 W440 NE LYING N HWY 44 LESS N35 THEREOF FOR RD SEC 35 19 12 .218AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

RONGEY, PAUL AND JOHN A SMITH
.
4915 S UNION AVE
TULSA, OK 74107

Property Address

896 W 51 ST S TULSA 741070000

Building No. 1

Account Number 328 R99235923511468

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$10500		$1155
Mobile	$0		$0
Total	$165900		$18249
		Exemptions	$0
School District	T-1A	Net Assessed	$18249
School Levy	$134.51	Estimated Taxes	**$2454.67**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030301	469000	06982/00768	191.58
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Building Elements

Type Duplex
Style Duplex *CODE
Design Duplex One Story
Quality Average Interior Finish Drywall
Condition Avg
Roof Gable/Hip Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 2 Total Rooms 0
Garage Garage: Attached Garage SF 484
Porch Porch: Slab Roof Ceil Porch SF 156
Basement N/A Basement SF 0
Year Built **2002** Eff Year Built **2002** Year Remodeled **0**
Square Footage **2448**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2429	10580	0	0

Description N/A

Mobile Home Information

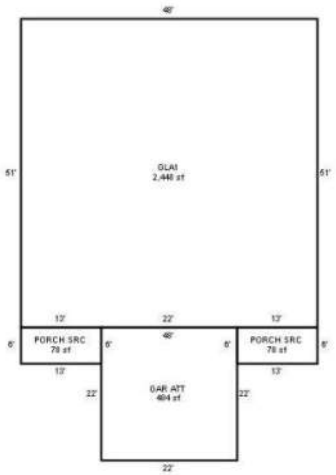
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 2 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	2448
Attached	0	X	484
Slab Roof Ceil	0	X	156
Standard	0	X	6
Garage Door Opener	0	X	2
Bath Heater	0	X	2
Garbage Disposal	0	X	2
Dishwasher	0	X	2
Laundry Facility	0	X	1
Range Hood Fan	0	X	1



Legal Description

E61.50 W186.50 W440 NE LYING N HWY 44 LESS N35 THEREOF FOR RD SEC 35 19 12 .243AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

AL-KAZAZ, GAHLIB REV TRUST, THE
.
C/O GAHLIB AL-KAZAZ TTEE PO BOX 471352
TULSA, OK 741471352

Property Address

808 W 51 ST S TULSA 741070000

Building No. 1

Account Number 329 R99235923511540

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$189100		$20801
Mobile	$0		$0
Total	$205000		$22550
		Exemptions	$0
School District	T-1A	Net Assessed	$22550
School Levy	$134.51	Estimated Taxes	**$3033.2**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20141002	205000	0/0	65.45
Grantor: NBC OKLAHOMA			
20140505	0	0/0	0
Grantor: TOWN AND COUNTY REALTY LLC			
20001001	155000	06434/01596	49.49
Grantor:			

Building Elements

Type Residential
Style Apartment w/4-8 Units *CODE
Design 2 Story
Quality Fair Interior Finish Drywall
Condition Avg
Roof Gable Composition Shingle
Exterior Wall Frame Siding N/A
Foundation Slab Fireplace N/A
Heat Cool Air in Heat Ducts Air N/A
Beds 0 Baths 4 Total Rooms 0
Garage N/A Garage SF 0
Porch Porch: Slab Roof Ceil Porch SF 170
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **3132**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.47	20473	0	0

Description N/A

Mobile Home Information

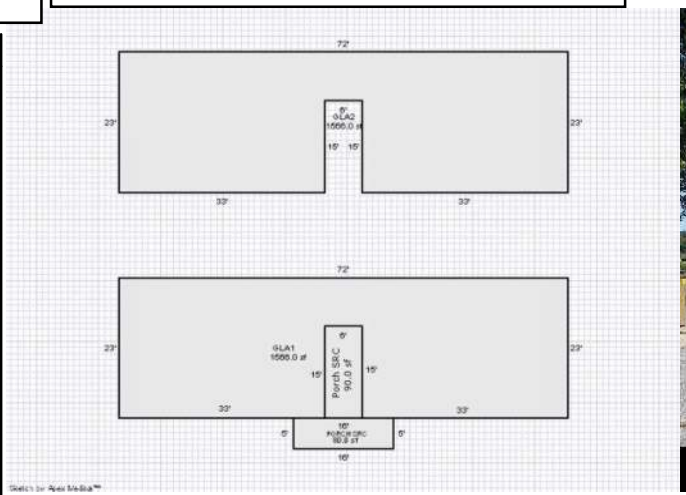
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Concrete Slab	0	X	1566
Slab Roof Ceil	0	X	90
Slab Roof Ceil	0	X	80
Standard	0	X	12
Laundry Facility	0	X	1
Allowance	0	X	1
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E192 W440 NE LYING N OF HWY 44 LESS N35 FOR RD THEREOF SEC 35 19 12 .47AC

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

TLC PROPERTIES INC
C/O LAMAR OUTDOOR
ATT RON HAVENS 7777 E 38TH ST
TULSA, OK 74145

Property Address

Building No. **0**

Account Number **330** **R99235923512340**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$200		$22
Mobile	$0		$0
Total	$200		$22
		Exemptions	$0
School District	T-1A	Net Assessed	$22
School Levy	$134.51	Estimated Taxes	**$2.96**

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	0.2303	10033	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20041223	42000	00000/00000	0

Grantor: TRUST CO OF OKLA, TRUSTEE

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG 440E 35S NWC NW NE TH S83 NELY255 W241.76 POB SEC 35 19 12 .23 AC

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **331** **R99235923545840**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$4589		$505
Mobile	$0		$0
Total	$4589		$505
		Exemptions	$0
School District	T-1A	Net Assessed	$505
School Levy	$134.51	Estimated Taxes	**$67.93**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19650622	0	03591/00019	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	24.7461	1077942	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

12.91ACS IN NE NE & 10.34ACS IN NW NE SEC 35 19 12 23.25AC

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Tulsa County Records [OK]

Owner Information

BECCO CONTRACTORS INC
.
PO BOX 9159
TULSA, OK 74157

Property Address

1110 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 332 R99235923523340

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$30900		$3399
Mobile	$0		$0
Total	$193000		$21230
		Exemptions	$0
School District	T-1A	Net Assessed	$21230
School Levy	$134.51	Estimated Taxes	**$2855.65**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19910906	0	05347/01958	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.5669	68253	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

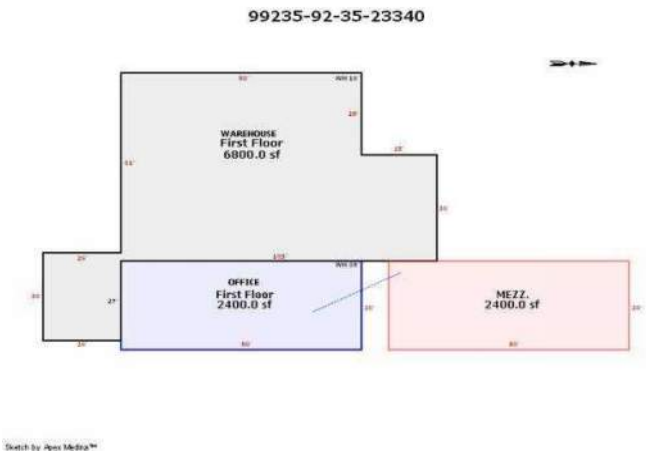
Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Plus Interior Finish N/A
Condition Avg +
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 2400
Year Built **1973** Eff Year Built **1973** Year Remodeled **0**
Square Footage **9200**

Commercial Elements

Stories N/A Story Height 00 Perimeter 113
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Office	0	X	2400
Yard Paving Concrete Low	0	X	488
Loading Dock - Steel Framed	0	X	275
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT NE NW BEG 730.5E SWC NE NW TH N192 W50 N50 W211.97 SW264.86 E354.5 POB LESS E20 THEREOF FOR ST SEC 35 19 12 1.57ACS

www.countyassessor.info

Tulsa County Records [OK]

Owner Information

Y M C A OF GREATER TULSA
METROPOLITAN OFFICE
5400 S OLYMPIA AVE
TULSA, OK 74107

Property Address

5323 S OLYMPIA AV W TULSA 741070000

Building No. 1

Account Number 333 R99235923526040

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$682743		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt Com

Lots	Acres	SF	Width	depth
0	27.55	1200078	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

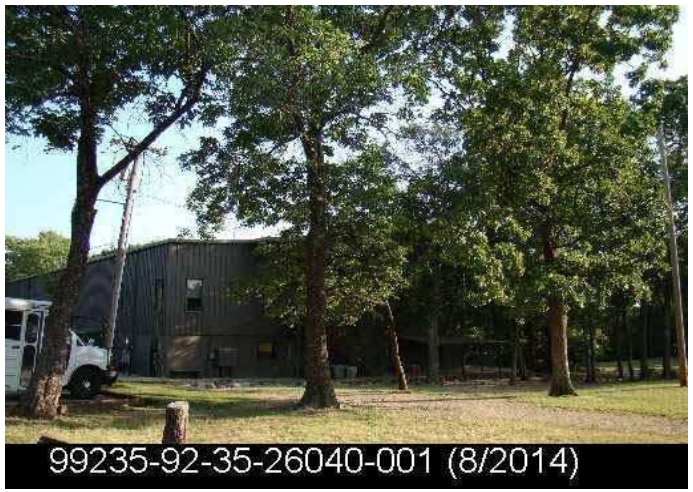
Type Commercial
Style Community Recreation Center
Design Community Recreation Center
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Complete HVAC Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1970** Eff Year Built **1970** Year Remodeled **0**
Square Footage **38324**

Commercial Elements

Stories N/A Story Height 00 Perimeter 840
Units 0 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Canopies- offic,meddl,public Steel Avg	0	X	1876
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
Canopies- offic,meddl,public Steel Avg	0	X	154
N/A	0		0



Legal Description

SE NW LESS BEG SWC SE NW TH N TO NWC E406.72 S1318.51 W414.2 POB SEC 35 19 12 27.55 ACS

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **334** **R99235923523530**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0882	3840	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19680103	0	03834/00357	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE NW BEG 730.5E SWC NE NW TH N192 W20 S192 E20 POB SEC 35 19 12 0.09AC

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Tulsa County Records [OK]

Owner Information

SEIFRIED, MELISSA TRUST
.
5301 S OLYMPIA AVE
TULSA, OK 74107

Property Address

1110 W SKELLY DR S TULSA 741070000

Building No. 1

Account Number 335 R99235923523940

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$44300		$4318
Mobile	$0		$0
Total	$79766		$8774
		Exemptions	$1000
School District	T-1A	Net Assessed	$7774
School Levy	$134.51	Estimated Taxes	**$1045.68**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20040116	0	07216/01875	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Residential

Lots	Acres	SF	Width	depth
0	1.6932	73755	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

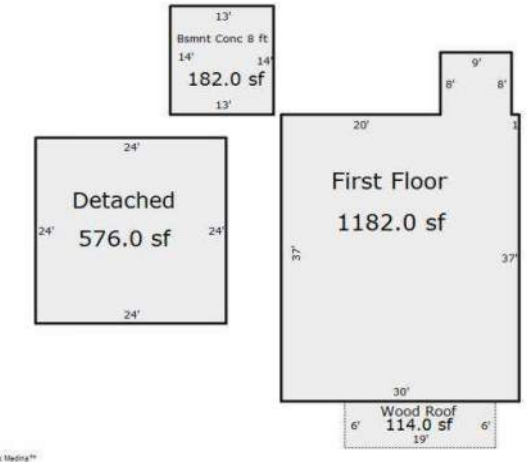
Type Residential
Style Single Family Residential *CODE
Design Ranch 1 Story
Quality Fair Plus Interior Finish Drywall
Condition Avg +
Roof Gable Composition Shingle
Exterior Wall Frame Hardboard N/A
Foundation Crawl Space Fireplace N/A
Heat Warm and Cool Air Zone Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage Garage: Detached Garage SF 576
Porch Porch: Wood Roof Porch SF 114
Basement N/A Basement SF 182
Year Built **1928** Eff Year Built **1928** Year Remodeled **0**
Square Footage **1182**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0
Units 1 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Detached	0	X	576
Bsmnt Conc 8 ft	0	X	182
Wood Roof	0	X	114
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT NE NW BEG 817S & 594W NEC NW TH S503 E198 N503 W198 POB LESS BEG 817S & 594W NEC NW TH S261 NE328.83 W198 POB SEC 35 19 12 1.69ACS

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Tulsa County Records [OK]

Owner Information

LEHMAN, RAY T TRUSTEE
RAY T LEHMAN TRUST
C/O S M R INC PO BOX 52220
TULSA, OK 74152

Property Address

920 W SKELLY DR S TULSA 000000000

Building No. 1

Account Number 336 R99235923523540

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$128000		$14080
Mobile	$0		$0
Total	$173500		$19085
		Exemptions	$0
School District	T-1A	Net Assessed	$19085
School Levy	$134.51	Estimated Taxes	**$2567.12**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19980831	0	06099/01391	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.79	121532	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Indust Lght Manufacturing
Design Indust Lght Manufacturing
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1969** Eff Year Built **1969** Year Remodeled **0**
Square Footage **13724**

Commercial Elements

Stories N/A Story Height 00 Perimeter 572
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Loading Dock - Steel Framed	0	X	192
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE NW BEG 597.98S & 198W NEC NW TH S722 W198.45 N503.90 NE261.12 NE41.94 POB SEC 35 19 12 2.79ACS

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Tulsa County Records [OK]

Owner Information

MONAHAN, VIRGINIA H TRUSTEE
VIRGINIA HELEN MONAHAN TR
C/O CROWN PRODUCTS 912 W SKELLY DR
TULSA, OK 741079411

Property Address

912 W SKELLY DR S TULSA 741070000

Building No. 1

Account Number 337 R99235923522940

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$128700		$14157
Mobile	$0		$0
Total	$365000		$40150
		Exemptions	$0
School District	T-1A	Net Assessed	$40150
School Levy	$134.51	Estimated Taxes	**$5400.58**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	3.3911	147716	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20070511	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Plus Interior Finish N/A
Condition Avg +
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1960** Eff Year Built **1960** Year Remodeled **0**
Square Footage **16000**

Commercial Elements

Stories N/A Story Height 00 Perimeter 780
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Blacktop Avg	0	X	9000
Dock-Height Floors 200000sq ft	0	X	1500
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT NE NW BEG 548.7S NEC NW TH S770.08 W198 N722 NE204.75 POB SEC 35 19 12 3.39ACS

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Tulsa County Records [OK]

Owner Information

WEST SKELLY INDUSTRIAL PARK
ATTN ALLEN G GELWICK JR
906 W SKELLY DR
TULSA, OK 74105

Property Address

906 W SKELLY DR S TULSA 741050000

Building No. 1

Account Number 338 R99235923509240

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$681100		$74921
Mobile	$0		$0
Total	$800000		$88000
		Exemptions	$0
School District	T-1A	Net Assessed	$88000
School Levy	$134.51	Estimated Taxes	**$11836.88**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19820616	0	04620/00001	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	10.73	467399	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

Type Commercial
Style Indust Lght Manufacturing
Design Indust Lght Manufacturing
Quality Fair Interior Finish N/A
Condition Fair +
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1974** Eff Year Built **1974** Year Remodeled **0**
Square Footage **30100**

Commercial Elements

Stories N/A Story Height 00 Perimeter 930
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	12517
Loading Dock - Steel Framed	0	X	1033
Canopies- stores, comm Steel Avg	0	X	400
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

W/2 OF TR BEG 440E & 443.78S NWCR NE TH SWLY TO WL NE SLY TO SWCR NE E440 N POB SEC 35 19 12 10.73AC

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Tulsa County Records [OK]

Owner Information

MDM INVESTMENTS LP
.
820 W SKELLY DR
TULSA, OK 74107

Property Address

820 W SKELLY DR S TULSA 741070000

Building No. 1

Account Number 339 R99235923510310

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$428400		$47124
Mobile	$0		$0
Total	$567000		$62370
		Exemptions	$0
School District	T-1A	Net Assessed	$62370
School Levy	$134.51	Estimated Taxes	**$8389.39**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20050228	0	00000/00000	0
Grantor: MARTINDALE, MERLE D			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	10.93	476111	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

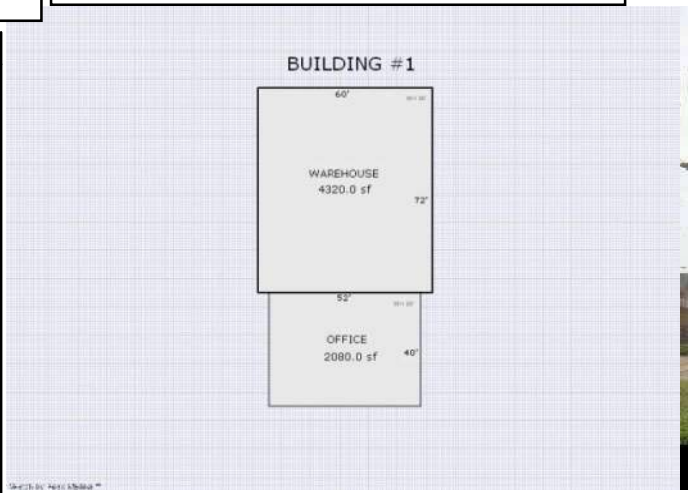
Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1973** Eff Year Built **1973** Year Remodeled **0**
Square Footage **6400**

Commercial Elements

Stories N/A Story Height 00 Perimeter 264
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Yard Paving Concrete Low	0	X	3000
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

E/2 OF TR BEG 440E & 443.78S NWC NE TH SWLY TO WL NE SLY TO SWC NE E440 N POB SEC 35 19 12 10.93AC

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Tulsa County Records [OK]

Owner Information

JARIWALA LLC
.
802 W SKELLY DR
TULSA, OK 74107

Property Address

802 W SKELLY DR S TULSA 741070000

Building No. 1

Account Number 340 R99235923508840

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$87300		$9603
Mobile	$0		$0
Total	$393600		$43296
		Exemptions	$0
School District	T-1A	Net Assessed	$43296
School Levy	$134.51	Estimated Taxes	**$5823.74**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120628	0	0/0	0
Grantor: JARIWALA, JAYDEEP N AND NEHA PATEL			
20101008	868000	0/0	160.8
Grantor: TUSHAR ENTERPRISES INC			
20040524	0	07299/02372	0
Grantor:			

Building Elements

Type Commercial
Style Motel
Design Motel
Quality Average Interior Finish N/A
Condition Avg
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1964** Eff Year Built **1990** Year Remodeled **1990**
Square Footage **5398**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	2.0051	87342	0	0

Description N/A

Mobile Home Information

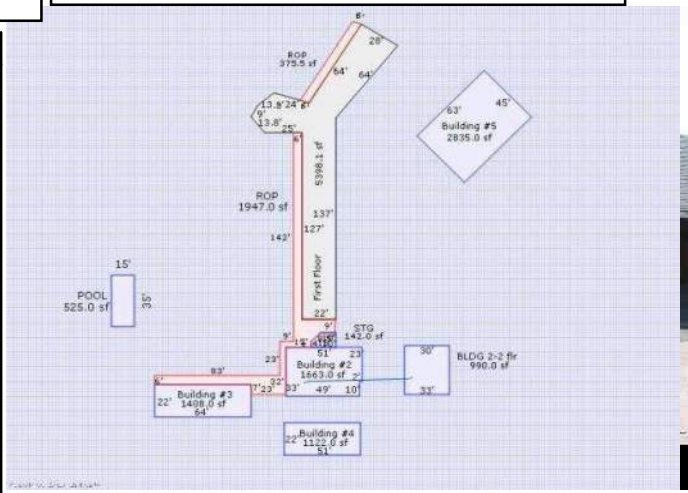
Serial No.
Make
Tag No. LxW 0 x 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 528
Units 16 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	14000
Canopies- offic,medcl,public Wood Low	0	X	3519
Outdoor Pool under 2000 sf	0	X	525
Utility Shed Wood Avg	0	X	142
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BG440E&392.52SNWCNEASDESCINBK2301PG543TH S500E300NTOORIGSR/WI-44THSWALGR/WTOPT71 4.33W&366.54SNECNWNETHNWTOPT602.67E&353 .82SNWCNETHSWPOBLESSBGSWCTHE30(

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Tulsa County Records [OK]

Owner Information

MDM INVESTMENTS LP
.
820 W SKELLY DR
TULSA, OK 74107

Property Address

5220 S LAWTON AV W TULSA 000000000

Building No. 1

Account Number 341 R99235923509040

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$196600		$21626
Mobile	$0		$0
Total	$255100		$28061
		Exemptions	$0
School District	T-1A	Net Assessed	$28061
School Levy	$134.51	Estimated Taxes	**$3774.49**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20050228	0	00000/00000	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.3434	58520	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

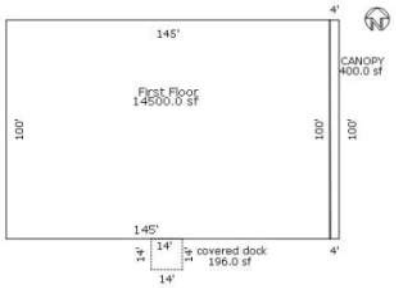
Type Commercial
Style Storage Warehouse
Design Storage Warehouse
Quality Fair Interior Finish N/A
Condition Fair
Roof Gable N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Forced Air Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1993** Eff Year Built **1993** Year Remodeled **0**
Square Footage **14500**

Commercial Elements

Stories N/A Story Height 00 Perimeter 490
Units 1 Rent 000
Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving asphalt, medium trucks	0	X	23292
Canopies- gar,indst,loft,war Steel Avg	0	X	400
Canopies- gar,indst,loft,war Steel Low	0	X	196
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

COMM 440E & 392.52S NWC NE AS DESC IN BK 2301 PG 543 TH S448 POB TH S52 E300 N200 W290 S148 W10 POB SEC 35 19 12 1.343ACS

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Tulsa County Records [OK]

Owner Information

BOTTLING GROUP LLC
.
ATTN: TAX DEPT. 3A-300 PO BOX 660634
DALLAS, TX 752660634

Property Address

5224 S LAWTON AV W TULSA 000000000

Building No. 1

342

Account Number R99235923515610

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$194100		$21351
Mobile	$0		$0
Total	$258000		$28380
		Exemptions	$0
School District	T-1A	Net Assessed	$28380
School Levy	$134.51	Estimated Taxes	**$3817.39**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20030304	0	06950/02053	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	1.4669	63900	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0

Building Elements

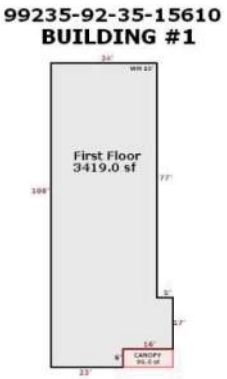
Type Commercial
Style Office Building
Design Office Building
Quality Average Interior Finish N/A
Condition Avg
Roof Flat N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat Package Unit Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **1975** Eff Year Built **1975** Year Remodeled **0**
Square Footage **3419**

Commercial Elements

Stories N/A Story Height 00 Perimeter 278
Units 1 Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	20000
Canopies- stores, comm Steel Avg	0	X	96
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

BEG 440E & 1747.48N SWC NE TH S213 E300 N213 W300 POB SEC 35 19 12 1.466ACS

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **343** **R99235923515070**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1112		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.0193	44400	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20120515	0	0/0	0

Grantor: PLACEDER ONE, LLC

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG NEC LT 1 BLK 1 LAWTON INDUSTRIAL PARK TH N212.98 E60 S740 W60 N527.02 POB SEC 35 19 12 1.02ACS

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Tulsa County Records [OK]

Owner Information

BOTTLING GROUP LLC
.
ATTN: TAX DEPT 3A-300 PO BOX 660634
DALLAS, TX 752660634

Property Address

510 W SKELLY DR S TULSA 992359235

Taxable Market		Assessed Value
Land	$0	$0
Improved	$1091300	$120043
Mobile	$0	$0
Total	$7421300	$816343
	Exemptions	$0
School District T-1A	Net Assessed	$816343
School Levy $134.51	Estimated Taxes	**$109806.3**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	38.6209	1682326	0	0

Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks high	0	X	35000
Canopies- stores, comm Steel Good	0	X	3600
Canopies- stores, comm Steel Good	0	X	2800
Loading Dock - Steel Framed	0	X	1440
Office	0	X	312
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Building No. 1

Account Number 344 R99235923502640

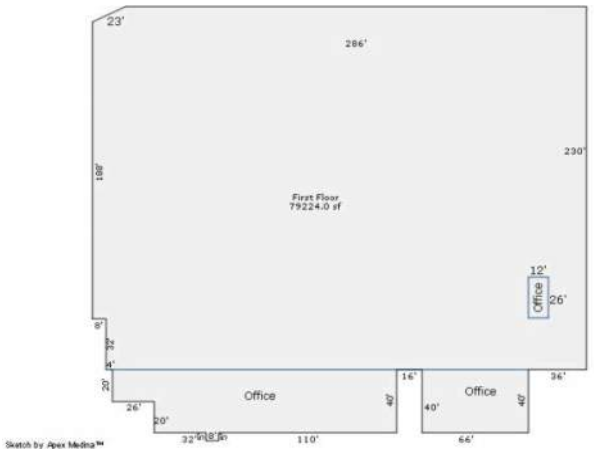
Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **35** Township: **19N** Range: **12E**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW 0 x 0



Building Elements

Type	Commercial		
Style	Office Building		
Design	Office Building		
Quality	Average	Interior Finish	N/A
Condition	Avg		
Roof	Flat		N/A
Exterior Wall	N/A		N/A
Foundation	N/A	Fireplace	N/A
Heat	Warm and Cool Air Zone	Air	N/A
Beds	0	Baths 0	Total Rooms 0
Garage	N/A		Garage SF 0
Porch	N/A		Porch SF 0
Basement	N/A		Basement SF 312
Year Built	**1954**	Eff Year Built **1954**	Year Remodeled **0**
Square Footage	**79184**		

Commercial Elements

Stories	N/A	Story Height 00	Perimeter 418
Units	1	Rent 000	
Class Description	Metal Frame		

Legal Description

BEG 529.41S & 324.95W NEC NE TH SE652.35 W861.59 SW125.50 S80 W72.77 S540 NW537.63 SW60 SW383.02 N1469.90 SE260 NE204.95 NE402.14 NE307 SE69.83 S245 SE250 NE160.58 POB LESS BEG 5

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Tulsa County Records [OK]

Owner Information

EXPLORER HOLDING COMPANY LLC
.
745 W 51ST ST
TULSA, OK 741078353

Property Address

745 W 51 ST S TULSA 741070000

Building No. 1

Account Number 345 R36840922645630

Sub Name: **ROYAL MANOR SOUTH**
Lot: **2** Block: **2**
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$2432900		$267619
Mobile	$0		$0
Total	$7500000		$825000
		Exemptions	$0
School District	T-1A	Net Assessed	$825000
School Levy	$134.51	Estimated Taxes	**$110970.75**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20160620	0	0/0	0
Grantor: EXPLORER HOLDINGS LLC			
20150501	7500000	0/0	206.5
Grantor: SPIRIT MASTER FUNDING III LLC			
20060526	6850000	00000/00000	188.6
Grantor: FRONTENAC LP			

Building Elements

Type Commercial
Style Automotive Center
Design Complete Auto Dealership
Quality Very Good — Interior Finish N/A
Condition Very Good
Roof Flat — N/A
Exterior Wall N/A — N/A
Foundation N/A — Fireplace N/A
Heat Package Unit — Air N/A
Beds 0 — Baths 0 — Total Rooms 0
Garage N/A — Garage SF 0
Porch N/A — Porch SF 0
Basement N/A — Basement SF 2495
Year Built **1992** — Eff Year Built **1992** — Year Remodeled **0**
Square Footage **36320**

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	8.8053	383561	0	0

Description N/A

Mobile Home Information

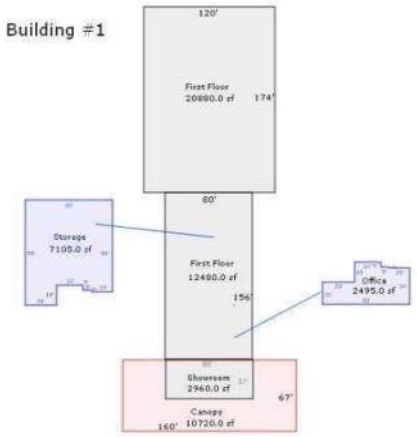
Serial No.
Make
Tag No. — LxW 0 x 0

Commercial Elements

Stories N/A — Story Height 00 — Perimeter 1294
Units 1 — Rent 000
Class Description Wood Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	350000
Canopies- stores, comm Steel Avg	0	X	7760
Storage	0	X	7105
Office	0	X	2495
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S458.32 LT 1 & ALL LT 2 BLK 2

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
DEPT HIGHWAY RIGHT OF WAY
200 NE 21ST ST
OKLAHOMA CITY, OK 73105

Property Address

Building No. **0**

Account Number **R99226922648210** (346)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1171		$129
Mobile	$0		$0
Total	$1171		$129
		Exemptions	$0
School District	T-1A	Net Assessed	$129
School Levy	$134.51	Estimated Taxes	**$17.35**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	5.91	257440	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19640826	0	03485/00500	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BG 117.98N SECR SW SE TH S93.23 W302 NE316.25 POB & BG 684.19E&150N SWC SE SE TH NWLY CRV RT237.91 SW608.58 E627.19 POB & BG 150N & 482.43W SECR SE TH NWLY CRV RT 342.74 ELY

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Tulsa County Records [OK]

Owner Information

FOWLER PROPERTIES TULSA C LLC

.

C/O FOWLER HOLDING CO 2721 36TH AVE NW
NORMAN, OK 73072

Property Address

707 W 51 ST S TULSA 000000000

Building No. 1

Account Number 347 R35510922644020

Sub Name: RIVERSIDE CHEVROLET PRT RSB PRT L2B1

Lot: 1 Block: 1

Area Name: TULSA CITY

Section 26 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$7800100		$858011
Mobile	$0		$0
Total	$8705800		$957638
		Exemptions	$0
School District	T-1A	Net Assessed	$957638
School Levy	$134.51	Estimated Taxes	$128811.89

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
20130325	0	0/0	0

Grantor: HUDIBURG TRUST PARTNERSHIP

Sale Date	Sale Price	Book/Page	$/SF
20121228	8800000	0/0	151.37

Grantor: HUDIBURG TRUSTS JOINT VENTURE LLC

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Land Information

Land Use: Commercial

Lots	Acres	SF	Width	depth
0	10.3956	452833	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Commercial

Style Complete Auto Dealership

Design Complete Auto Dealership

Quality Very Good Interior Finish N/A

Condition Very Good

Roof Gable N/A

Exterior Wall N/A N/A

Foundation N/A Fireplace N/A

Heat Package Unit Air N/A

Beds 0 Baths 0 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1986** Eff Year Built **1986** Year Remodeled **0**

Square Footage **58136**

Commercial Elements

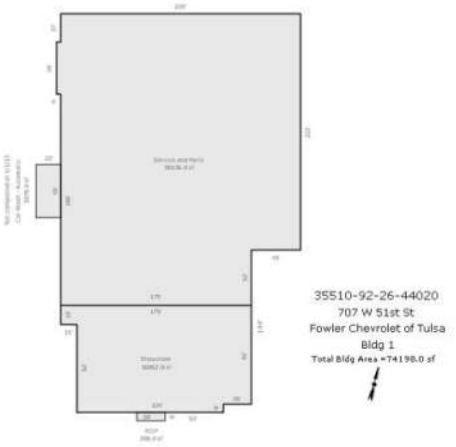
Stories N/A Story Height 00 Perimeter 1196

Units 0 Rent 000

Class Description Metal Frame

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks hig	0	X	330000
Paving concrete heavy duty trucks hig	0	X	19200
Canopies- stores, comm Steel Good	0	X	208
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



35510-92-26-44020-001 (1/2013)

Legal Description

LT 1 BLK 1

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. 0

Account Number 348 R99226922648310

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **26** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	5.122	223114	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19500505	0	02086/00545	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

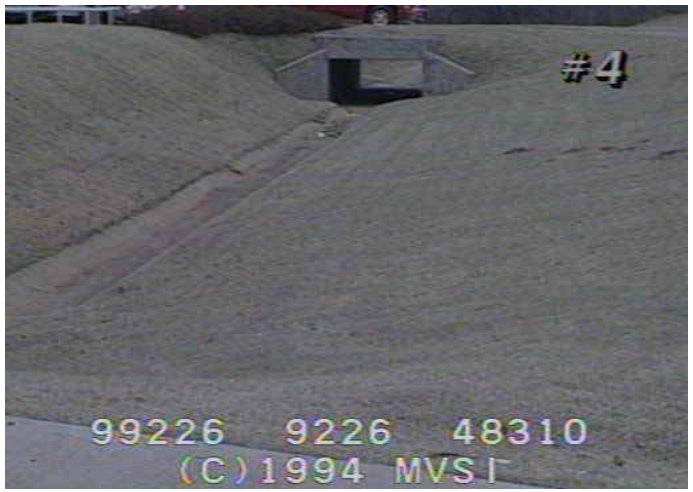
Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

S24.75 E/2 W/2 SE LESS W359.97 & S150 SE SE LESS RR R/W & TR BEG 150N SECR SE TH N TO PT 1408.72S NEC SE TH W24.75 S TO PT 475N SECR SE W25.25 S60 W25 S265 E75 POB SEC 26 19 12 5.

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **R99225922519370** (349)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **25** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	5.4819	238791	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19500503	0	02086/00545	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

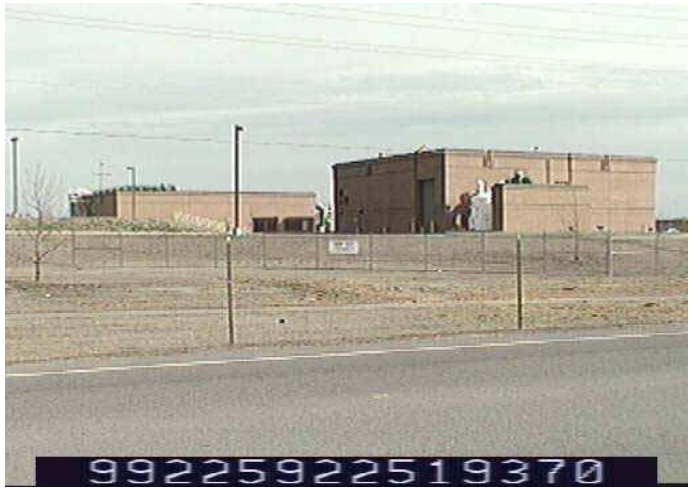
Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0



Legal Description

PRT GOV LT 6 & 7 BEG SWC LT 7 TH N2640 E24.75 S2165 E25.25 S15 E366.6 S310 E TO RIVER SW SL SEC W POB SEC 25 19 12 5.43ACS

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA

.

175 E 2ND ST STE 260

TULSA, OK 74103

Property Address

5309 S ELWOOD AV W TULSA 741070000

Building No. 1

350

Account Number R99236923619360

Sub Name: **UNPLATTED**

Lot: Block:

Area Name: **TULSA CITY**

Section **36** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	10.7204	466980	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW 0 x 0

Building Elements

Type Commercial

Style Office Building

Design Office Building

Quality Average Interior Finish N/A

Condition Avg

Roof Flat N/A

Exterior Wall N/A N/A

Foundation N/A Fireplace N/A

Heat Complete HVAC Air N/A

Beds 0 Baths 0 Total Rooms 0

Garage N/A Garage SF 0

Porch N/A Porch SF 0

Basement N/A Basement SF 0

Year Built **1970** Eff Year Built **1970** Year Remodeled **0**

Square Footage **4908**

Commercial Elements

Stories N/A Story Height 00 Perimeter 328

Units 0 Rent 000

Class Description Masonry

Miscellaneous Structures

Description	Yrblt	LxW	Units
Paving concrete heavy duty trucks low	0	X	80966
Paving concrete heavy duty trucks low	0	X	20443
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

99236-92-36-19360

Legal Description

LT 2 LESS 1.03 AC RR R/W & ALL LT 3 LYING E OF RR R/W SEC 36 19 12

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **R99225922519900** (351)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **25** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19601215	0	03110/00699	0
Grantor:			
19291014	0	0902/0264	0
Grantor: HOUSTON, V D & BERTA			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	2.2	95832	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

GOV LT 8 LYING W OF EL RIVERSIDE DRIVE SEC 25 19 12 2.20ACS

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. **0**

Account Number **352** **R35775922507540**

Sub Name: **RIVERVIEW VILLAGE AMD**

Lot: Block:

Area Name: **TULSA CITY**

Section **25** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$1262		$139
Mobile	$0		$0
Total	$1262		$139
		Exemptions	$0
School District	T-1A	Net Assessed	$139
School Levy	$134.51	Estimated Taxes	**$18.7**

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	5.3358	232426	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0

Grantor:

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT LT 2 BEG SWC TH N10SE14.14 W10 POB BLK 1 & ALL BLKS 7&8 & LTS 1 THRU 5&13 THRU17BLK 9 & ALL LT 5 & PRT LT 6 BEG SECR TH W122.5 N30.5 ELY 103.17 NE22.26 S30 POB & PRTLTS 7&8 BE

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2 ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **R35775922507610** (353)

Sub Name: **RIVERVIEW VILLAGE AMD**
Lot: Block:
Area Name: **TULSA CITY**
Section **25** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.8156	79089	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

LTS 6 7 8 9 10 11 12 BLK 9

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **354** **R99236923618000**

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **36** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.4101	17865	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N250 LT 1 SEC 36 19 12

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. **0**

Account Number **R99236923628080** (355)

Sub Name: **UNPLATTED**
Lot: Block:
Area Name: **TULSA CITY**
Section **36** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	9.2979	405015	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19530225	0	02360/00536	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

BEG NEC NE NE TH S207 W50 NW359.9 TO PT 123S NL NE TH NW55.21 TO PT 118.12S NL NE TH NW50.19 TO PT 113.68 S NL NE TH NW296.16 TO PT 87.5 S NL NE TH W525.35 N87.5 TO NWC NE TH E1

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

TULSA 741050000

Building No. **0**

Account Number **356** **R45300923617859**

Sub Name: **VONNIE JO ACRES ADDN**

Lot: Block:

Area Name: **TULSA CITY**

Section **36** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$64000		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	1.4695	64010	0	0

Description N/A

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
19951205	0	05765/01767	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

PRT VONNIE JO ACRES ADDN DESC AS GOV LT 1 LESS N250 & N/2 N/2 GOV LT 4 LYING W WL RIVERSIDE DR

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Tulsa County Records [OK]

Owner Information

CITY OF TULSA
.
175 E 2ND ST STE 260
TULSA, OK 74103

Property Address

Building No. 0

Account Number 357 R45300923616100

Sub Name: VONNIE JO ACRES ADDN
Lot: Block:
Area Name: TULSA CITY
Section 36 Township: 19N Range: 12E

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$100		$0
Mobile	$0		$0
Total	$		$
		Exemptions	$
School District	T-1A	Net Assessed	$
School Levy	$134.51	Estimated Taxes	$

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.0805	3507	0	0

Description N/A

Mobile Home Information

Serial No.
Make
Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built 0 Eff Year Built 0 Year Remodeled 0
Square Footage 0

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

N 15 OF 1,2,3,4 BLK 1

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Tulsa County Records [OK]

Owner Information

STATE OF OKLAHOMA
C/O DEPT OF TRANSPORTATION
R/W DIV 200 NE 21ST ST
OKLAHOMA CITY, OK 731053204

Property Address

Building No. 0

Account Number 358 R45300923616110

Sub Name: **VONNIE JO ACRES ADDN**

Lot: Block:

Area Name: **TULSA CITY**

Section **36** Township: **19N** Range: **12E**

Taxable Market / Assessed Value

	Taxable Market		Assessed Value
Land	$0		$0
Improved	$168		$18
Mobile	$0		$0
Total	$168		$18
		Exemptions	$0
School District	T-1A	Net Assessed	$18
School Levy	$134.51	Estimated Taxes	**$2.42**

Sales Information

Sale Date	Sale Price	Book/Page	$/SF
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			
00000000	0	0/0	0
Grantor:			

Land Information

Land Use: Exempt

Lots	Acres	SF	Width	depth
0	0.7174	31250	0	0

Description N/A

Mobile Home Information

Serial No.

Make

Tag No. LxW x

Building Elements

Type N/A
Style N/A
Design N/A
Quality N/A Interior Finish N/A
Condition N/A
Roof N/A N/A
Exterior Wall N/A N/A
Foundation N/A Fireplace N/A
Heat N/A Air N/A
Beds 0 Baths 0 Total Rooms 0
Garage N/A Garage SF 0
Porch N/A Porch SF 0
Basement N/A Basement SF 0
Year Built **0** Eff Year Built **0** Year Remodeled **0**
Square Footage **0**

Commercial Elements

Stories N/A Story Height 00 Perimeter 0000
Units 0 Rent 000
Class Description N/A

Miscellaneous Structures

Description	Yrblt	LxW	Units
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0
N/A	0		0

Legal Description

S100 LTS 1-4 & ALL LT 5 & PRT LT 6 BEG NWC TH E20 SW40.3 N35 POB BLK 1

Utility and Tradefixture Information

6450 South Lewis
Suite 300
Tulsa, OK 74136

TEL 918.250.5922
FAX 918.858.0107

www.GarverUSA.com

Section 4
Utility and Tradefixture Summary
I-44 Corridor from I-244 Junction East to the Arkansas River
Tulsa County JP 32728(04)

4.1 Utilities

Redfire Engineering, LLC performed the utility investigations. The utility owners identified within the study area are summarized in the tables below.

AT&T	
Type of Utility	Communication Cable
Name and Address of Utility Owner	AT&T 5305 E. 71 St. Tulsa, OK 74136
Name and Phone number of Contact Person	Al Nichols (918) 596-4237 an9488@att.com
Utility Product	Information/Communication
Utility Attributes (if applicable)	Various size Copper and Fiber Optic OH and buried cables
General Location of Utility	ATT has a buried 72 count Fiber line that runs along the north edge of W 51 St. inside the study limits from S 25th W Ave. to the west side of US-75. They have a 9-way duct with 1500 and 900 pair copper and 216, 24, and 12 count fiber lines that tees south of the east/west run line on W-51st St. on the north limits of the study area at the NW corner of W 51st St. and S. Yukon Ave. where it continues south across I-44 to a MH on the south side of W Skelly Dr. to a point located approximately 50' south of the south curb line of W Skelly Dr. They have a buried 600 pair copper and a 72

General Location of Utility (cont'd)	count fiber line crossing of I-44 approximately 780' east of the centerline of I-35 from the east west line on the south side of W Skelly Dr. that crosses to the north side of W 51st St. then parallels the north side of W 51st St. to the west where it turns into S Olympia Ave. and then turns north along the east side S Olympia Ave. where it goes north and runs off the north limits of the study area. They have a buried 900 and 600 pair copper line in a 3.5" conduit that crosses US-75 along the north side of W 49th St. on the north end of the project. They have a buried 200 pair copper and 72 count fiber line that runs east along the south side of W Skelly Dr. from approximately 175' east of S. Olympia Ave. measured along the centerline of W Skelly Dr. to approximately where W Skelly Dr. turns south, changes to the I-44 Access Rd. east of S Houston Ave. They have a 10 duct run with, a 900, 1800 pair copper and a 24 and 216 ct. fiber running along the south side of W Skelly Dr. from the west end of the study limits to the east side of S 33rd W Ave. that continues east as a direct bury 300 pair, and a 9 duct run with a 900, 1500 pair copper and a 12, 24, and 216 ct. fiber from the MH on the SW corner of W 33rd Ave. and W Skelly Dr. to the MH on the south side of the of W Skelly Dr. located approximately 50' south of the south curb line of W Skelly Dr. where they spilt and continue off the study limits on the west side of US-75 and cross I-44 to the north to the NW corner of W 51st St. and S. Yukon Ave. In addition the 10 duct run with, a 900, 1800 pair copper and a 24 and 216 ct. fiber running along the south side of W Skelly Dr. runs north south along the east side of W 33rd St. and crosses under I-44. They have an overhead line 100 pair copper line that crosses US-75 on the north side of W 61st St. at the very south limits of the study area.

General Location of Utility (cont'd)	They have a 6 duct run with a 200 pair copper, 48 and 216 ct. fiber and an airpipe that runs north/south along the east side of Riverside Dr.

ODOT	
Type of Utility	Communication
Name and Address of Utility Owner	ODOT Maintenance Division ITS Fiber Optic Engineering 200 N.E. 21st Street Oklahoma City, OK 73105
Name and Phone number of Contact Person	Jared Schwennesen P.E. (405) 521-4302 Jschwennesen@odot.org
Utility Product	Information
Utility Attributes	Fiber Optic in conduit and an empty ground boxes and conduit
General Location of Utility	ODOT shares fibers with Level 3 communications at the west end of the study area and have their own line existing line going west. They have an existing conduit that runs from a MH under I-44 on the west side of the I-44 access Rd. between S Skelly Dr. and W 51st St. that crosses the I-44 access Rd. to the west and runs north along the inside of the Access Rd. where it turns back to W 51st St. to the SE corner of W 51st St. and S Elwood Ave. where it crosses W 51st St. to the north and dead end on the NW corner of W 51st St. and S Elwood Ave. ODOT has a proposed plan to install a new fiber optic line that runs along the south side of the south I-44 Access Rd. from where it is tied to the Level 3 Communication line going north and west that runs east along the entire length of the project at the west end to the east end of the project. For the most part it will run just north curb line of W Skelly Dr.

General Location of Utility (cont'd)	They are proposing to hang on the RR bridge west of the river and hand on the Arkansas River bridge as well to the east side of Riverside Dr. at the east limit of the study area. They have several existing empty ground boxes along this route but don't know when they will add conduit and fiber between them.

Level 3 Communications	
Type of Utility	Communication Cable
Name and Address of Utility Owner	Level 3 Communications 18 W Archer St Tulsa OK 74103
Name and Phone number of Contact Person	Mark Lane (918) 858-3023 **mark.lane@level3.com**
Utility Product	Information
Utility Attributes	One 60 ct. Fiber Optic cable in HDPE conduit
General Location of Utility	Level 3 communication has a fiber optic line that enters the extreme west limits of the study area approximately 147' s of W 51st St. that crosses under I-44 and parallels approximately 9' behind the west curb line of 38th street where it crosses under I-44 to the south side of W Skelly Dr. where it turns east off the limits of the study area

Office of Management and Enterprise Services (OMES)	
Type of Utility	Communication
Name and Address of Utility Owner	Office of Management and Enterprise Services (OMES) 3115 N. Lincoln Blvd. Oklahoma City, OK 73105
Name and Phone number of Contact Person	Danny Griswold (405) 521-4107 Danny.griswold@omes.ok.gov

Utility Product	Information
Utility Attributes	Fiber Optic cable in Plastic conduit
General Location of Utility	OMES has a fiber optic line at the extreme west limits of the study area that parallels the west side of RR tracks from the south limits to the north limits of the study area just east of 38th St. It crosses under I-44 and parallels behind of the RR tracks approximately 10' west of the tracks.

City of Tulsa Fiber Optic	
Type of Utility	Communication Cable
Name and Address of Utility Owner	City of Tulsa 1273 N. Broadway Tulsa, OK 73034
Name and Phone number of Contact Person	Darren Fritz Manager, Network Services City of Tulsa Information Technology Dept. 175 E. 2nd St. Suite 06-690 (918)-261-9091 dfritz@cityoftulsa.org
Utility Product	Information Technology
Utility Attributes	Various size buried and aerial Fiber Optic lines
General Location of Utility	The City of Tulsa has an aerial 30 count Fiber Optic line underhung on PSO that enters the study area from the north running south along the east side of S 25th W Ave. to the north side of W 51st St, where it turn east and runs off the east limits of the study area to the west side of S Union Ave. to where it turns north to the south side of S 49th W St. where it turns east and enters the study area on the west side of US-75 and crosses US-75 to the east limits of study area on the east side of US-75. A buried 30 count fiber line enters the study area from the north running south along the

General Location of Utility (cont'd)	east side of S Indian Ave. to the north side of W 51st St, where it turns east and parallels the north side of W 51st St. to the west side of S Elwood Ave. where it splits and a 72 count fiber crosses S Elwood Ave. to the east and turns north off the north limits of the study area and an aerial 144 count fiber goes overhead and runs south approximately 170' where it goes underground and splits where one line a 144 count FO with 3- 1-1/2" conduits in a 4" pipe goes underground south across I-44 to a point approximately 340' south of W Skelly Dr. and approximately 100' west of S Elwood Ave. where it goes east and crosses S Elwood Ave. where it splits and goes south off the study limits along the east side of S Elwood Ave. and continues northwesterly to the south side of the City of Tulsa's Administration building north of their Southside Wastewater Treatment plant where it drops to a 24 count and continues more northwesterly to the east side of the River Parks West Trail and turns north and runs north along the east side of the River Parks West Trail to off the north limits of the study area. A second 48 count fiber line from where it splits approximately 170' south of the north side of W 51st St. and the west side of S Elwood Ave. goes southeasterly to the NW corner of the I-44 bridge where it continues east across the Arkansas River underhung on the bridge in a 3" conduit with COX to the west side of River where it turns north and run up the west side of Riverside Dr. north off the north limits of the study area.

COX	
Type of Utility	Communication Cable
Name and Address of Utility Owner	Cox Business 6301 Waterford Blvd., Ste. 200 Oklahoma City, OK 73118
Name and Phone number of Contact Person	Mark Bowling Construction planner III

	(405) 417-4064 mark.bowling@cox.com
Utility Product	Communication Cable
Utility Attributes	Various size aerial coaxial and buried Fiber Optic cables
General Location of Utility	Cox is underhung on where their line runs along the north side of W 51St St. from the west end of the study to where it runs off the study limits on the west side of US-75 Ave. Cox is underhung on PSO where their pole lines run north of W 51st St. between S 33rd W Ave. and S 32nd W Ave., between S 32nd W Ave. and S 31st W Ave., between S 31st W Ave. and S 30th W Ave. between S 30th W Ave. and S 29th W Ave., between S 29th W Ave. and S 28th W Ave. between S 29th W Ave. and S 28th W Ave. between S 28th W Ave. and S 27th W Ave., between S 27th W Ave. and S 26th W Ave., between S 26th W Ave. and S 25th W Ave. and, where they run along the west side of S 25th W Ave. They are underhung on PSO where their line runs along the north edge of the study limits on the south side of W 50th St. from the west side of S 25th W Ave. east to where W 50th St. dead ends into the west side of the Carbondale Assembly of God west parking lot, where they go underground into the bldg. They are underhung on PSO where their line runs along the north edge of the study limits on the south side of W 50th St. from the west side of S Yukon Ave. east to where it runs off the study limits on the west side of US-75 Ave. They are underhung on PSO where their lines tee off their east/west pole line running along the north side of W 51st St. and go south along the west side of S 34th W Ave., between S 34th W Ave. and S 33rd W Ave., between S 33rd W Ave. and S 32nd W Ave., between S 32nd W Ave. and S 31st W Ave., and between S 31st W Ave. and S 30th W Ave.

	They are underhung on PSO where their line tees off their east/west pole line running along the north side of W 51st St. and go south along the west side of S 33rd W Ave.to the last pole on the north side of I-44 where they go underground and cross under I-44 to the first pole on the south side of I-44 where they go overhead underhung on PSO and continue underhung on PSO where they angle across W Skelly Dr. and run south along the east side of W 33rd W Ave. and continue off the south limits of the study area. They have an underground cable that enters at the west limit of the study where it comes off the study limits from the north side to W 51st St. south to the east side of S 38th W Ave. where it runs along 38th Ave. to the south under I-44 and makes a slight angle to the SE side of the RR tracks and W skelly Dr. where it jogs back to the west side of the RR tracks and ends.
General Location of Utility (cont'd)	They cross W 51st St. to the south and are underhung on PSO' secondary lighting circuit that runs along the south side of W 51st St. from approximately 160' east of S 28th W Ave. east to approximately 140' east of S 25th W Ave. where they cross back to the north side of W 51st St. They have an overhead crossing of W 51st St. at the east side of S 29th W Ave. They are underhung on PSO where their line comes from the north limits of the study area runs south along the east side of S Olympia Ave. for approximately 440'. They are underhung on PSO where their line runs along the north side of W 51St St. from the NE corner of S Jackson Ave. and W 51St St. west for approximately 400'. They are underhung on PSO where their pole lines run north of W 51st St. at the back of the lot lines approximately 150' west of S Maybelle Ave., between S Maybelle Ave. and S Lawton Ave., and between S Lawton Ave. and

General Location of Utility (cont'd)	S Jackson Ave. They have an underground cable that goes underground from the NE corner of S Jackson Ave. and W 51St St. runs south Southwesterly and crosses under I-44 to the SW corner of S Lawton and W Skelly Dr. They have 3 underground cables coming from the north along the east side of S Indian Ave. that turns east along the north side of W 51st St. to the east side of S Elwood Ave. where one splits north and runs along the east side of S Elwood Ave. and the other two cross W 51st St. to the south side and continue east along the south side of W 51st St. to where it turns south of S 51st St. under I-44 and continues to loop around the west side of the I-44 Access Rd. under I-44 to the north side of the I-44 river bridge where a conduit attaches to the north side of the river bridge and runs east across the river, where they go underground and cross under Riverside Dr. and turn north along the east side of Riverside Dr. off the study limits. They are underhung on PSO where their line coming from the south limits of the study area along the east side of S 36th W Ave. to the south side of the W Skelly Dr. turns east along the south side of W Skelly Dr. to approximately 110' west side of S 34th W Ave. They are underhung on PSO where their line enters the south limits of the study on the west side of S Olympia Ave. south of W Skelly Dr. where it runs north approximately 70' then angles to the NE across S Olympia Ave. then angles northeasterly to a point approximately 50' south of W Skelly Dr. and 1050' west of S Lawton Ave. measured along the centerline of W Skelly Dr. and continues east along the south side of W Skelly Dr. to a point approximately 33' south of W Skelly Dr. and 340' west of S Lawton Ave. measured along the centerline of W Skelly Dr. where it goes underground and turns south and runs past the south limits of the study area. From where the overhead turns south an underground

General Location of Utility (cont'd)	cable also continues east along the south side of W Skelly Dr. to the west side of S Lawton Ave. where it turns south and runs off the study limits to the south. From the PSO located approximately 820' west measured along the centerline of W Skelly Dr. and 60' south they have an underground cable that runs along the east side of and the serves the closest bldg. to the south and a second underground cable the parallels West Skelly Dr. to the west and turns south and runs along the east side to serve the adjacent bldg. to the west of the afore-mention bldg. They are underhung on PSO where PSO has a line at the north edge of the study limits running east to west along the south side of S 49th W Ave. except they cross US-75 underground between the first two poles either side of US-75.

Sprint	
Type of Utility	Communication Cable
Name and Address of Utility Owner	Sprint 1616 Maryland Rd Irving, TX 75061
Name and Phone number of Contact Person	James B Stuart (972) 791-8556 james.stuart@sprint.com
Utility Product	Information
Utility Attributes	Fiber Optic cables in 1-/4" HDPE
General Location of Utility	Sprint has a fiber optic line at the extreme west limits of the study area that parallels the west side of RR tracks from the south limits to the north limits of the study area just east of 38th St. It crosses under I-44 and parallels behind of the RR tracks approximately 14' west of the tracks.

Windstream Communications	
Type of Utility	Communication Cable
Name and Address of Utility Owner	Windstream Communications 2300 South First place Broken Arrow, OK 74012-7137
Name and Phone number of Contact Person	Roy Varner (918) 451-3406 roy.varner@windstream.com
Utility Product	Information/Communication
Utility Attributes	Various size Copper and Fiber Optic OH and buried cables
General Location of Utility	ATT has a duct running north/south along the east side of W 33rd Ave. that crosses under I-44. Windstream shares some of the fibers in this duct.

PSO Transmission	
Type of Utility	Electric
Name and Address of Utility Owner	Public Service of Oklahoma (PSO) AKA American Electric Power 212 E. 6th Tulsa OK 74119
Name and Phone number of Contact Person	Kip Robinson (918) 599-2447 kerobinson@aep.com
Utility Product	Electric
Utility Attributes (if applicable)	Overhead Transmission Electric lines
General Location of Utility	PSO has two parallel transmission lines crossing of I-44. One is a 138KV double circuit on steel structures approximately 457' east of the RR tracks on the west side of the Arkansas River. The second is single 138KV atop wooden H-frame poles with a second 138KV underhung on the same wooden poles approximately

	516’ east of the RR tracks on the west side of the Arkansas River

PSO Distribution	
Type of Utility	Electric
Name and Address of Utility Owner	Public Service of Oklahoma (PSO) AKA-American Electric Power 5223 S. Garnett Rd. Tulsa, OK 74112
Name and Phone number of Contact Person	Lonny Hicks (918) 250-6211 ldhicks@aep.com
Utility Product	Electric
Utility Attributes (if applicable)	Overhead Distribution Electric lines
General Location of Utility	PSO has an overhead 13.2/7.6 KV OH line that runs along the north side of W 51St St. from the west end of the study to where it runs off the study limits on the west side of US-75 Ave. This line has a double circuit underbuilt on it from approximately 185’ west of S 33rd. Ave. to past where it runs off the study limits on the west side of US-75 Ave. They have an UG secondary service line coming from the west side at the west edge of the study limits that encroaches onto RR r/w for a short distance and an OH secondary service line goes north off the limits of the study area and OH secondary service line is attached from the west side of S 37th W Ave. to approximately 225’ east of S 36th W Ave. with a secondary service lines that tee off the secondary line and run south one along the east side of S 36th W Ave. approximately 250’, and four that tee off this line and cross W 51st St. to the south one at the east end 225’ east of S 36th W Ave., one at 140’, one at 205’ one at 500’, and one at 518’ east of S 37th W Ave. There is a secondary service crossing W 51st St. approximately 60’ east of S 35th W Ave.

General Location of Utility (cont'd)	Secondary service lines are attached and running along the line on the north side of W 51st St. from the east side of S 34th W Ave. approximately 122' west, from the west side of S 32th W Ave. approximately 145' west, from the west side of S 31th W Ave. approximately 140' west and 190' east either direction, from 195' east of S 25th W Ave. approximately 175' east, and from 170' west of S Yukon Ave. for approximately 560' west where it crosses W 51st, St. to the south and goes underground to serve the bldg. to the south. They have secondary service lines along the south side of W 51st St. from S 28th W Ave. east to approximately 135' east of S 25th W Ave. They have a secondary service line that runs north between S 34th W Ave. and S 33rd W Ave. from approximately 75' south of W 51st St. running north to off the study limits to the north. A buried secondary service line runs south of this line to serve the bldgs. to the south. They have an overhead 13.2/7.6 KV OH line that runs along the west side of S 37th W Ave. from the south side of W 51st St. that crosses I-44 to the south and continues south past the south limits of the study area. They have an overhead 13.2/7.6 KV OH line with secondary service that runs along the west side of S 34th W Ave. from the north side of W 51st St. approximately 175' south. A secondary service line continues south approximately 45' south. Secondary service lines tee east and west off this line approximately 175' south of W 51st St. to serve the bldgs. on either side. They have an overhead 13.2/7.6 KV OH double circuit vertical line underbuilt with a horizontal circuit that runs along the west side of S 33rd W Ave. from the north side of W 51st St that crosses I-44 to the north side of W Skelly Dr. where it angles across the intersection of W

General Location of Utility (cont'd)	Skelly Dr. and S 33rd W Ave. to the east side of S 33rd W Ave. where it continues south as a triple horizontal circuit past the south limits of the study area. They have an overhead 13.2/7.6 KV OH line that runs north between S 33rd W Ave. and S 32nd W Ave. from approximately 90' south of the centerline of W 51st St. to off the study limits to the north with secondary service from the south side of W 51st St. with a secondary service line that tees NW at the south end and then continues south to the north side of the north r/w line of I-44 where it tees east and west adjacent to the north r/w line of I-44 to feed the houses adjacent to the north side of I-44. They have an overhead 13.2/7.6 KV OH line that runs north between S 32nd W Ave. and S 31st W Ave. from approximately the north r/w line of I-44 to off the study limits to the north. It has a short secondary service at the south end extending south approximately 25' and two secondary service lines that extend south approximately 125' and southwesterly approximately 95' across W 51st St. They have an overhead 13.2/7.6 KV OH line with secondary service that runs north between S 31st W Ave. and S 30th W Ave. from the north side of W 51st St. to off the study limits to the north. A secondary service line extends south from this line across W 51st St. approximately 245'. They have an overhead 13.2/7.6 KV OH line with secondary service that runs north between S 30th W Ave. and S 29th W Ave. from approximately north side of W 51st St. north to off the study limits to the north. They have OH secondary service line that runs along the south side of S 51st St. Ave. between west side of S 30th W Ave. to approximately 100' west of S 29th W Ave. where a buried secondary service lines extends east to serve the houses to the east and then an OH secondary service crosses W 51st St. to the NE

General Location of Utility (cont'd)	back to the north side of W 51st St. They have a buried secondary service line that goes south of W 51st St. approximately 190' at S 29th W Ave. They have an overhead 13.2/7.6 KV OH line with secondary service that runs north between S 29th W Ave. and S 28th W Ave. from the north side of W 51st St. to off the study limits to the north. They have a double circuit overhead 13.2/7.6 KV OH line with secondary service that runs north between S 28th W Ave. and S 27th W Ave. from the north side of W 51st St. to off the study limits to the north. The secondary service extends across W 51st St. to the south to feed a secondary lighting circuit that runs along the south side of S west 28th W Ave. east to approximately 140' east of S 25th W Ave., a line tees of this line along the west side of S 25th W Ave. to the north side of I-44. They have an overhead 13.2/7.6 KV OH line with secondary service that crosses W 51st St. southeasterly from the west side of S 27th W Ave. the secondary service extends approximately 65' further southeasterly. They have an overhead 13.2/7.6 KV OH line that runs north between S 27th W Ave. and S 26th W Ave. from approximately south side of W 51st St. to off the study limits to the north with secondary service that extends across W 51st St. to the southeast and secondary that extends north off the study limits from approximately 120' north of W 51st St. They have an overhead 13.2/7.6 KV OH line that runs north between S 26th W Ave. and S 25th W Ave. from the north side of W 51st St. to off the study limits to the north with secondary service that extends north off the study limits from approximately 120' north of W 51st St. They have an OH secondary service lines that and cross W 51st St. approximately 35' west

General Location of Utility (cont'd)	and a second 220' west of S 26th W Ave. to the south. They have a secondary service line along the west side of S 25th W Ave. from the south side of W 51st St. south approximately 205' They have an overhead 13.2/7.6 KV OH line with secondary service that runs north along the east of S 25th W Ave. from approximately the north side of W 51st St. to off the study limits to the north. They have an overhead 13.2/7.6 KV OH line with secondary service that runs right along the north edge of the study limits on the south side of W 50th St. from the west side of S 25th W east to where W 50th St. dead ends into the west side of the Carbondale Assembly of God west parking lot. They have an overhead 13.2/7.6 KV OH line with secondary service that runs along the north edge of the study limits on the south side of W 50th St. from the west side of S Yukon Ave. east to where it runs off the study limits on the west side of US-75. They have an overhead 13.2/7.6 KV OH line with secondary service that crosses W 51st St. southwesterly approximately 220' west of S 25th W Ave. They have a secondary service line along the west side of S Yukon Ave. from the north side of W 51st St. to off the study limits to the north. Just inside the north edge of the study limits a secondary service line from the west side of S Yukon Ave. runs east between W 51st St. and W 50th St. to off the study limits to the east. An overhead 13.2/7.6 KV OH line runs east from the east of S Yukon Ave. to off the study limits to the east From the north limits of the study area an overhead 13.2/7.6 KV OH line runs south along the east side of S Olympia Ave. approximately 440' where it turns to a secondary service and continues approximately 140' further south.

General Location of Utility (cont'd)	Secondary service lines off this line cross S Olympia Ave. at angle to the SW approximately 245' and to the west to approximately 545' south of the north edge of the study limits. They have an UG 13.2/7.6 KV line that runs NW from the NE corner of S Jackson Ave. and W 51St St. into the car dealership at this corner They have an overhead 13.2/7.6 KV OH line that runs along the north side of W 51St St. from the NE corner of S Jackson Ave. and W 51St St. west approximately 1,195' Approximately 440' east of S Maybelle Ave. and W 51St St. a secondary service line crosses W 51st St. to the SW to serve the house on the south side of W 51st St. They have an overhead 13.2/7.6 KV OH line with secondary service coming from the north limits of the study to the north side of W 51st running at the back of the lot lines approximately 150' west of S Maybelle Ave. The secondary service turns east along W 51st St approximately 300' They have an overhead 13.2/7.6 KV OH line with secondary service coming from the north limits of the study to the north side of W 51st running in between S Maybelle Ave. and S Lawton Ave. The secondary service turns east along W 51st St approximately 170'. They have an overhead 13.2/7.6 KV OH line with secondary service coming from the north limits of the study to the north side of W 51st running in between S Lawton Ave. and S Jackson Ave. approximately 25' inside the back of the lot lines east of S Lawton Ave. The secondary service splits and turns west to the NE corner of S Jackson Ave. and W 51st St and a secondary service line crosses W 51st St. to the SW then immediately crosses W 51st St. back to the NW. They have an overhead 13.2/7.6 KV OH line with secondary service coming from the north

General Location of Utility (cont'd)	limits of the study to the north side of W 51st St. approximately 110' west of S Elwood Ave. the where the secondary ends and the primary 13.2/7.6 KV OH line continues south across I-44 to the past the south limits of the study area. They have an overhead 13.2/7.6 KV OH line that is attached to the top of a double circuited H- frame PSO Transmission line coming from the north limits of the study area running along the east side of S Elwood Ave. where it continues south across I-44 to past the south limits of the study area. They have an overhead 13.2/7.6 KV OH line with secondary service coming from the south limits of the study area along the east side of S 36th W Ave. to the south side of the W Skelly Dr. that turns east along the south side of W Skelly Dr. to approximately 110' west side of S 34th W Ave. and the secondary continues to the west side of S 34th W Ave. There is an overheard secondary service line that tees of this line to the south approximately 195' east of S 36th W Ave., a underground secondary service line that tees of this line to the south approximately 390' east of S 36th W Ave. and a secondary service line running south of W Skelly Dr. on the west side of S 36th W Ave. An overhead 13.2/7.6 KV OH line running behind the bldgs. along the south side of W Skelly Dr. encroaches into the southern edge of the study area from a point approximately 480' west of S 24th W Ave. west approximately 1200' They have an overhead 13.2/7.6 KV OH line that enters the south limits of the study on the west side of S Olympia Ave. south of W Skelly Dr. where it runs north approximately 70' then angles to the NE across S Olympia Ave. then angles northeasterly to a point approximately 50' south of W Skelly Dr. and 1050' west of S Lawton Ave. measured along the centerline of W Skelly Dr. where it splits and one line angles off to the SE approximately 75' (with a secondary line along the 75') then just the

General Location of Utility (cont'd)	primary turns south and runs off the limits of the study area and the other line continues east along the south side of W Skelly Dr. to a point approximately 33' south of W Skelly Dr. and 340' west of S Lawton Ave. measured along the centerline of W Skelly Dr. where it turns south and runs past the south limits of the study area. Where it turns south there are three secondary lines that serve the bldgs. to the east. There are buried 13.2/7.6 KV OH lines that tee off to the SW approximately 660' and to south at approximately 820' and 1175' west of S Lawton Ave. measured along the centerline of W Skelly Dr. that continue south of the limits of the study area. They have an overhead 13.2/7.6 KV OH line at the north edge of the study limits running east to west along the south side of S 49th W Ave. that crosses US-75. They have an overhead 13.2/7.6 KV OH line with secondary service at the south edge of the study limits running east to west along the north side of S 61st W Ave. that crosses US-75.

Enable Midstream	
Type of Utility	Gas line
Name and Address of Utility Owner	Enable Midstream 109 NW 50th St Oklahoma City, OK 73154
Name and Phone number of Contact Person	Jeffery Stovall (405) 556-2430 jeffery.stovall@enablemidstream.com
Utility Product	HP Gas
Utility Attributes	24" steel
	Enable has a line coming from the southwest which turns northwest and enters the study

General Location of Utility	area on the south approximately 115’ west of the RR tracks on the west side of the Arkansas River. It angles slightly toward the tracks and crosses the I-44 south Access Rd approximately 90’ west of the tracks then angles to approximately 25’ west of and parallels the RR tracks under I-44 where it crosses under I-44 and parallels the RR tracks to the north limits of the study area.

ONG	
Type of Utility	Gas
Name and Address of Utility Owner	Oklahoma Natural Gas 4901 N. Santa Fe Oklahoma City, OK 73118-7911
Name and Phone number of Contact Person	Keith Ward (405) 556-6401 Keith.ward@onegas.com
Utility Product	Natural Gas
Utility Attributes	Polyethylene and Steel
General Location of Utility	**DISTRIBUTION** ONG has a 2” coated steel line running along the north side of W 51st St. from the west end to approximately 375’ west side of S 33rd W Ave. where it crosses W 51st St. then runs along the south side to the west side of S 33rd W Ave. where it runs south and crosses under I-44 along the east side of S 33rd W Ave. to the south side of W Skelly Dr. where is crosses s 33rd W Ave. to the east and continues south along the east side of S 33rd W Ave. They have a 6” bare steel running east along the north side of W 51st St. from the west side S 36th W Ave. to just west of S 33rd W Ave. and a 4.5” bare steel line running east along the north side of W 51st St. from the east side S 33rd W Ave. to the west side of S 30th W Ave. (which is coated steel crossing S 32nd W Ave.).

General Location of Utility (cont'd)	From the west side of S 30th W Ave. where the 4.5" bare steel ends it turns to 4" PE and runs east to the west side of S 25th W Ave. where it continues east as a 2" bare steel line approximately 800' with the last 130' of the 800' being PE. From the west side of S 25th W Ave. it tees south and crosses W 51st St. then turns east and crosses S 25th W Ave. runs south along the what would be an extension of the east side of S 25th W Ave. and continues south where it crosses I-44 and tees into the east/west 2" coated steel line running along the south side of W Skelly Dr. From the east west line running along the north side of W 51 St. There is a 2" PE line running north along the RR Tracks at the west end of the project and between there and S 25th W Ave. there are lines that tee off to the north at each street. They are all 2'' PE lines except S 36th W Ave. is a 3" PE, S 31st St. W Ave. is a 4" bare steel, S 25th W Ave. is a 2" bare steel and S 26th W Ave. and S 28th W Avenues are 2" coated steel. There is a 5" bare steel on the west side of S 36th W Ave., 2" coated steel lines along the west side of S 34th W Ave. and S 31st St. W Ave. that tee off the east/west line running along the north side of W 51st St. and run south across W 51 St. to the north r/w of I-44. A 1-1/4" PE line crosses W 51st St. south along the west side of 32nd W Ave. then crosses 32nd W Ave. to the east side and runs south to the north r/w line of I-44. They have a 2" line running between S 34th W Ave. and what would be S 35th W Ave. along the south side of W Skelly Dr. on the south side of I-44, which turns to bare steel and turns south along the west side of S 34th W Ave. to off the south study limits. They have a 2" coated steel line that runs along the south side of W Skelly Dr. on the south side of I-44 from the extension of S 29th W Ave. east to off the study limits before it turns south on S Union Ave. A 2" coated steel line tees off this line to the south and runs

General Location of Utility (cont'd)	along the west side of S 24th W Ave. to off the south study limits. Where W 51st St. meets the west side of the study limits on the west side of US-75 a 6'' coated steel line runs along the south side of W 51st St. until it meets the west r/w line of US-75 where it runs north and parallel to just outside the west r/w of US-75 to point approximately 875' north of I-44 where it turns east and crosses US-75 to just outside the east r/w line where it turns south and runs parallel to the east r/w line of US-75 to the south side of W 51st St. then turns east and continues east to the west side of S Jackson Ave. A 4-1/2'' coated steel line tees off the afore-mentioned line and runs north behind the houses on the west side of S Maybelle Ave. and 2'' coated steel lines run north off this line behind the houses on the east side of S Maybelle Ave. and S Lawton Ave., and the west side of S Olympia Ave. ONG has a 2'' coated steel line beginning approximately 160' east of US-75 and 1025' south of I-44 that runs north along the east r/w line of US-75 and turns east where it parallels along the south side of W Skelly Dr. to the west side of S Houston Dr. where it turns south off the study limits. There are 2'' PE lines that tee off to the south of this line at the entrance into Green Metal Fabricators and S Lawton Ave. There is a 2'' coated steel line that comes from the north along the east side of S Elwood to the north side of W 51st St. where turns east and it parallels W 51st St. to the east side and continues east to the east side of River Parks West Trail where it turns south and goes under I-44 and connects to a regulator station on the west bank just past the south edge of the I-44 bridge over the Arkansas River. A 2'' coated steel line encroaches into the west limits of the study area approximately 1,350' north of W 61st St. and turns south just

General Location of Utility (cont'd)	outside the west r/w of US-75 for approximately 350'. **ONG TRANSMISSION** ONG has a transmission main encroaches into the west limits of the study area approximately 1,360' north of W 61st St. and turns north just outside the west r/w of US-75 and parallels the west r/w of US-75 to a point approximately 1,115' south of I-44 where it crosses U-75 to the east r/w line where it angles SE off the study limits. It turns back to the NE and enters into the south limits of the study area of I-44 approximately 340' west of S Lawton Ave. measured along the centerline of W Skelly Dr. where it turns east just inside the south I-44 R/w line and continues east to a point approximately 430' east of S Houston Ave. and 75' south of W Skelly Dr. where it turns north and crosses I-44 to a point 200' west of the centerline of S Indian Ave. and 35' north of the centerline of W 51st St. where it tees and runs west just inside the north I-44 r/w line parallel to W 51st St. approximately 440' to a regulator Sta. just west of W Jackson Ave. and runs east just inside the north I-44 r/w line parallel to W 51st St. to the west RR r/w where it turns north off the study limits.

Phillips 66	
Type of Utility	Gas line
Name and Address of Utility Owner	Phillips 66 1384-04 Phillips Building 420 South Keeler Bartlesville, OK 74003-6670
Name and Phone number of Contact Person	Matthew R. Dowdell (918) 977-5143 Matt.R.Dowdell@P66.com
Utility Product	Refined gas (Carries different refined products from time to time)
Utility Attributes	10" steel
	Phillips 66 has a line parallel to the west side

General Location of Utility	of the RR tracks west of the Arkansas River coming from the south that enters the study area on the south approximately 45’ west of the RR tracks on the west side of the River. It continues north parallel to the RR tracks where it crosses under I-44 past the north limits of the study area.

ONEOK NGP	
Type of Utility	Gas Line
Name and Address of Utility Owner	ONEOK Gas Transportation Real Estate Services 2738 M&K Lane El Reno, Oklahoma 73036
Name and Phone number of Contact Person	Timothy Mikles (405) 433-1041 tmikles@oneok.com
Utility Product	Gas
Utility Attributes	20” and 12’ steel
General Location of Utility	ONEOK NGP owns a high pressure gas line coming from the south that enters the study area approximately 400’ east of US-75 on the north side of west 61st St that parallels the northbound on ramp to US-75 from W 61st St. to a point approximately 250’ east of the centerline of US-75 and 640’ north of the south limits of the study area where it turns north and runs parallel to the east side of US-75 north approximately 800’ where it angles off the east limits of the study at an approximate 45° angle. It re-enters the south side of the study area along I-44 approximately 1,620’ east of US-75 and continues north to a point approximately 20’ south of the south curb line of W Skelly Dr. where it turns east and parallels along the south side of W Skelly Dr. to a point approximately 240’ west of S Houston Ave. and 80’ south of W Skelly Dr. where it turns north and crosses to the north perpendicular to I-44 to a point 3’ west of the west curb line

General Location of Utility (cont'd)	of S Indian Ave. and 40' north of the north curb line of W 51st St. where it angles east across S. Indian Ave. to a point 3' east of the east curb line of S Indian Ave. and 80' north of the north curb line of the W 51st St. where it continues east just outside the north r/w line parallel along north side of the north W 51st St approximately 675' to a point on the RR r/w where it turns north off the north limits of the study area.

Enbridge Energy	
Type of Utility	Oil
Name and Address of Utility Owner	Enbridge Energy 2101 S. Linwood Ave Cushing, OK 74023
Name and Phone number of Contact Person	Ben Johnson 918-223-2054 Benjamin.Johnson@enbridge.com
Utility Product	Crude Oil (currently inactive)
Utility Attributes	10" steel
General Location of Utility	Enbridge Energy has an 10" line coming from South that enters the study area approximately 700' east of the centerline of US-75 and runs north approximately 950' where it turns approximately 45° to the NW runs approximately 160' parallel to W Skelly Dr. where it turns north and crosses I-44 approximately 840' west of US-75, where it turns northeasterly and follows just inside the north I-44 r/w line to a point approximately 155' west of US-75 and 1105' north of I-44 where it crosses US-75 to the east r/w of US-75 then jogs slightly NE approximately 60' then turns north to the north side of W 49th St. where it angles back to just outside the east r/w line of US-75 and continues north until it angles off the north limits of the study area.

City of Tulsa Water	
Type of Utility	Water Line
Name and Address of Utility Owner	City of Tulsa 2317 S. Jackson Ave. Suite N215 Tulsa, OK 74107
Name and Phone number of Contact Person	Chad Stall Engineering Graphics Coordinator (918)-596-2595 cstall@cityoftulsa.org
Utility Product	Water
Utility Attributes	Various types and size water lines
General Location of Utility	City of Tulsa has a main waterline that enters the west end of the study area coming from the south side of W 51st St. on the east side of S 38th W Ave. to the west RR r/w where it turns SW and parallels the west edge of the RR r/w along the east side of S 38th W Ave. under I-44 to a line running along the south side of W Skelly Dr. They have a main line that enters the west end of the study area coming from the west that runs east along the south side of W 51st St. to the west side of S 31st W Ave. where it jogs to the north side of W 51st and continues east to the east end of the study limits approximately 320' east of S Yukon Ave. Main lines tee off the east/west line along the south side of W 51st St. W 51st St. line to the north and run off the study limits to the north on the west side of S Yukon Ave., the west and east side of S 25th W Ave. the west sides of S 26th W Ave., S 27th W Ave., S 29th W Ave. S 33rd W Ave., S 34th W Ave. S 35th W Ave., S 36th W Ave. and the east sides of S 28th W Ave., S 30th W Ave., S 31st W Ave., S 32nd W Ave. Main lines tee off east/west line along W 51st St. line to the south, and run south to the north r/w line of I-44 on the west sides of S 31st W Ave., and S 37th W Ave. and the east

General Location of Utility (cont'd)	sides of S 25th W Ave., S 32nd W Ave., S 34th W Ave., and S 36th W Ave. A main line runs south from the north side of W 51st St. on the west side of S 25th W Ave. and continues south across I-44 to off the south limits of the study area. A main line runs south from the south side of W 51st St. on the east side of S 33rd W Ave. continues south under I-44 to a line running along the south side of W Skelly Dr. They have a main line runs along south side of W 49st St. that enters the study area on the west side of U-75 and crosses US-75 to the east to past the east limits of the study area. A main line tees off the east/west line along the south side W 49st St. and runs south along the east side of S Olympia Ave. then crosses under S Olympia Ave. where it turn east into W 51st St. and runs east along the south side of W 51st St. to the west side of S Lawton Ave. A main line coming from a line running along the south side of W Skelly Dr. that crosses I-44 to the north approximately 200' east of US-75 to the north side of W 51st St. where it turns east and runs approximately 5' north of the curb line of 51st St. to the west side of S Indian Ave. where it jogs north to just outside the north r/w of I-44 and runs east parallel to the north r/w of I 44 to the west side of the I-44 Access Rd where it turns south of W 51st St. under I-44 and continues to loop around the west side of the I-44 Access Rd. where it turn west into W Skelly Dr. and continues west to S Elwood Dr. where it jogs south to just outside the south r/w line of I-44 south of W Skelly Dr. where it parallels the south r/w line of I-44 to the west to the beginning where it started on the south side of I-44 and crossed I-44 approximately 200' east of US-75. From the south side W Skelly Dr. where it crosses I-44 it continues west to just inside the south r/w line of I-44 to the west side of W Olympia Ave. where it turns south and runs off the south limits of the study area.

General Location of Utility (cont'd)	A main line that enters the west end of the study area coming from the west that runs east just behind the south curb line along the south side of W Skelly Dr. to approximately 600' east of S 24th W Ave, where it angles out to the edge of the south r/w line of I-44 until it runs off the east limit of the study area on the west side of US-75. Approximately 200' of this line jogs out onto private property (private lot) from approximately 825' west of S 24th W Ave. east. Main lines tee off east/west line along W Skelly Dr. to the south, and run south to off the south limits of the study area on the east sides of S 37th W Ave. and S 34th W Ave.

City of Tulsa Sanitary Sewer	
Type of Utility	Sewer Line
Name and Address of Utility Owner	City of Tulsa 2317 S. Jackson Ave. Suite N215 Tulsa, OK 74107
Name and Phone number of Contact Person	Chad Stall Engineering Graphics Coordinator (918)-596-2595 cstall@cityoftulsa.org
Utility Product	Wastewater
Utility Attributes (if applicable)	Various type and size sewer lines
General Location of Utility	City of Tulsa has a SS main that enters the west end of the study area coming from the south side of W 51st St. on the west side of S 38th W Ave. to the west RR r/w where it turns SW and parallels the west edge of the RR r/w along the east side of S 38th W Ave. under I-44 to the north side of W Skelly Dr. where it crosses perpendicular to W Skelly Dr. to a line running along the south side of W Skelly Dr. City of Tulsa has a SS main that runs along north side of W 51st St. from the west limits of

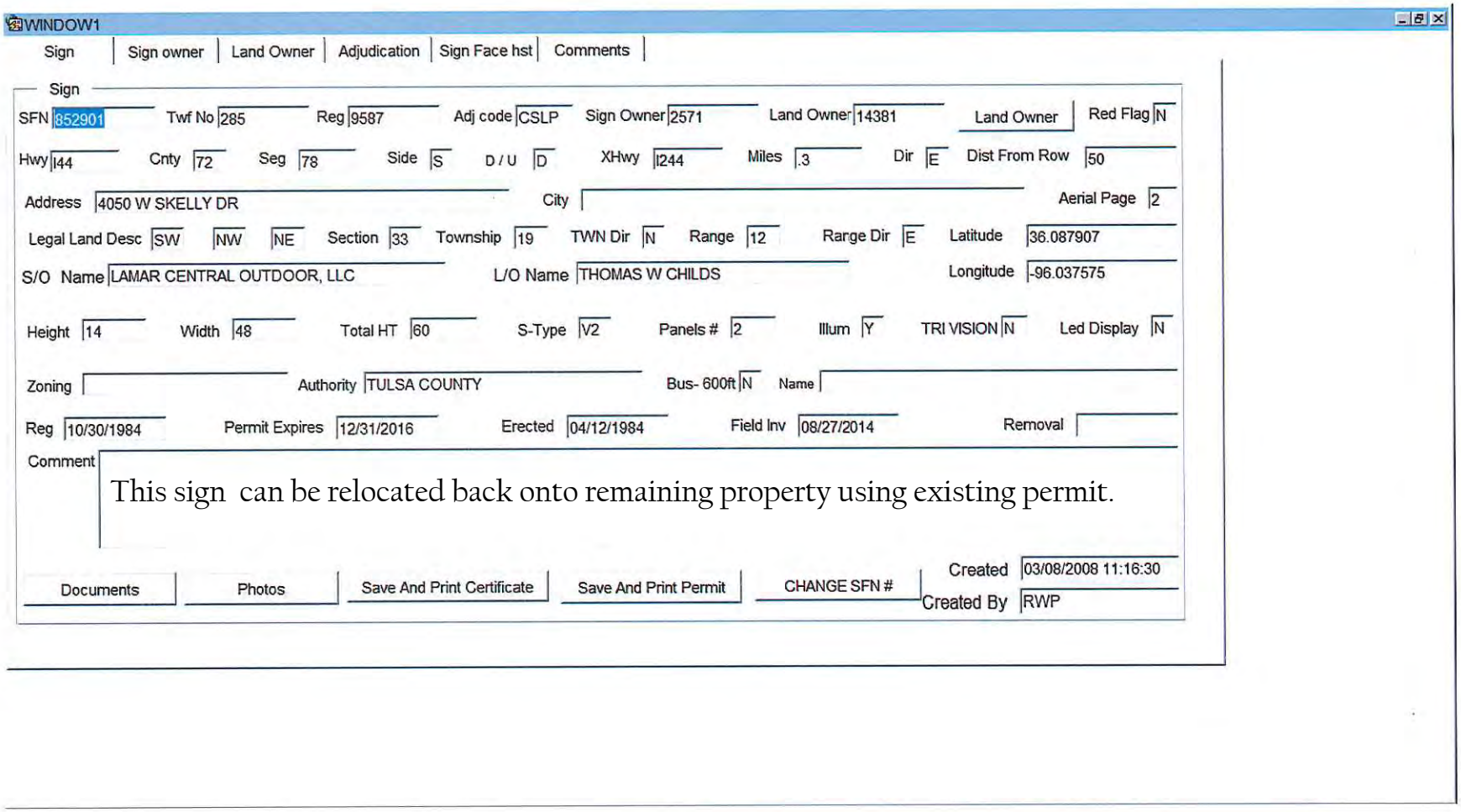
General Location of Utility (cont'd)	the study are to a line between S 38th W Ave. and S 37th W Ave. that runs north off the study limits. From where it turns north it angles back to the SW to the east side of S 37th W Ave. on the south side of W 51st St. where it turns south approximately 150'. City of Tulsa has a SS main that runs along south side of W 51st St. from the east side of S 37th W Ave. to approximately 225' east of S 34th W Ave. where it turns north an crosses W 51st St. to a main running along the north side of W 51st St. Main lines tee off the east/west line along the south side W 51st St. line to the north and run down the center of S 36th W Ave. to off the study limits to the north and south along the west side of S 36th W Ave. to the south to the north r/w line of I-44. They have a main that runs from the north study limits south down the west side of the pavement of S 35th W Ave. to south side of W 51st St. A main line tees off the east/west line along the south side W 51st St. and runs south along the west side of S 34th W Ave. to the north r/w line of I-44. They have a main running along the north side of W 51st St. from the east side of S 34th W Ave. east to approximately 170' east of S 33rd W Ave. where it turns north and runs off the north study limits. A line tees off this line and runs north along the west side of S 33rd W Ave. off the north study limits. They have mains that enter from the north limit of the study area that run down to the north side of the first lots north of W 51st St. in between S 28th W Ave. and S 29th W Ave., in between S 29th W Ave. and S 30th W Ave. and, in between S 31st W Ave. and S 32nd W Ave. They have a main that runs south down from the north limits of the study area in between S 30th W Ave. and S 31st W Ave. that crosses W

General Location of Utility (cont'd)	51st. and continues south to the first lot north of the north I-44 north r/w line. They have a main running along the south side of W 51st St. from approximately 80' east of S 29th W Ave. east to the west side of S 28th W Ave. where it crosses to the north side of W 51st St. and turns east and runs east along the north side of W 51st St. approximately 210' east of S 26th W Ave. Mains tee off this line to the north and run off the north study limits in between S 27th W Ave. and S 28th W Ave., in between S 27th W Ave. and S 26th W Ave. and, in between S 26st W Ave. and S 25th W Ave. The line between S 27th W Ave. and S 26th W Ave. also tees off this line to the south to the north r/w line of I-44 where it splits and one main runs east approximately 680' along the edge of the I-44 north r/w line, and the other angles across I-44 to a point approximately 900' west of S 24th W Ave. and 32' south of W Skelly Dr. measured along the centerline of Skelly Dr. where it jogs east southeasterly approximately 70' then turns south to a line running east/west along the south limits of the study area that enters the study area from approximately 1350' east of S 33rd W Ave. and runs east along the north side of the creek at the south edge of limits of the study area approximately 1330' where the creek turns south and it splits and two mains run south off the south limits of the study area on either side of the creek. There is a main that enters from the north edge of the study area that runs south along the west edge of S Olympia Dr. until it turns east and turns into W 51st St. and then continues east along the north side of W 51st St. to the west side of S Jackson Ave. At the back of the lots east of S Lawton Ave. where it turns north off the study limits. Mains tee off this line and run north off the study limits at the back of the lots west of S Maybelle Ave. and in between S Maybelle Ave. and S Lawton Ave. At the back of the lots west of S Maybelle Ave. a main turns south and runs to the north r/w line of I-44 where it tees and runs north approximately 200' east just outside the north

General Location of Utility (cont'd)	r/w line of I-44 and west approximately 205' east just inside the north r/w line of I-44. From where it turns west inside the north r/w line of I-44 approximately 75' west it tees south and crosses I-44 to a point just on the north side of W Skelly Dr. where it turns west and runs along the west side of W Skelly Dr. approximately 160' and turns south and runs off the south limits of the study area. They have a main that enters the north side of the study area on the west side of the Arkansas River that runs under I-44 approximately 65' east of the I-44 Access Rd. (between W 51ST St. and W Skelly Dr.) under I-44 to a point approximately 290' south of I-44 where is angles southwest to a point approximately 365 ' south of W Skelly Dr. and approximately 80' west of S Elwood Ave. where it splits and one line jogs NW to a point approximately 320 ' south of W Skelly Dr. and approximately 140' west of S Elwood Ave. where it runs east perpendicular to S Elwood Dr. off the limits of the study area and just past where this line jogged NW another line runs southeasterly along the edge of the east side RR r/w off the limits of the study area. At the east end of the project on the west side of the river they have a main the enters the north limits of the study area approximately 195' west of S Riverside Dr. where it runs south jogs around the outfall structure dumping into the river from the east then runs south along the west side of S Riverside Dr. under I-44 to a point approximately 320 ' south of I-44 and approximately 140' west of S Riverside Dr. where a line tees off and crosses S Riverside Dr. to off the study limits to the east and it continues south southwesterly off the study limits to the south. They have a main that enters the west limits of the study area on the west side of US-75 and approximately 650' south of I-44 where it runs east and follows along to the south edge of W Skelly Dr. where it goes under the US-75 to the east limits of the study area.

4.2 Tradefixture (Billboard) Ownership

I-44 is regulated by the ODOT Outdoor Advertising Branch. There are 14 registered signs within the I-44 Corridor study area, 1 unregistered sign within the I-44 Corridor study area, 3 registered signs immediately adjacent to the study area, and 4 registered signs in the nearby vicinity of the study area. Of those 14 registered signs within the study area, 3 signs (SFN #804304, SFN #804303, and SFN #804217) are grandfathered signs that cannot be relocated back onto remaining property and would need to be acquired if affected by the project. These 3 signs are located within the study area and are north of I-44 and east of Hwy 75. See the information in this section.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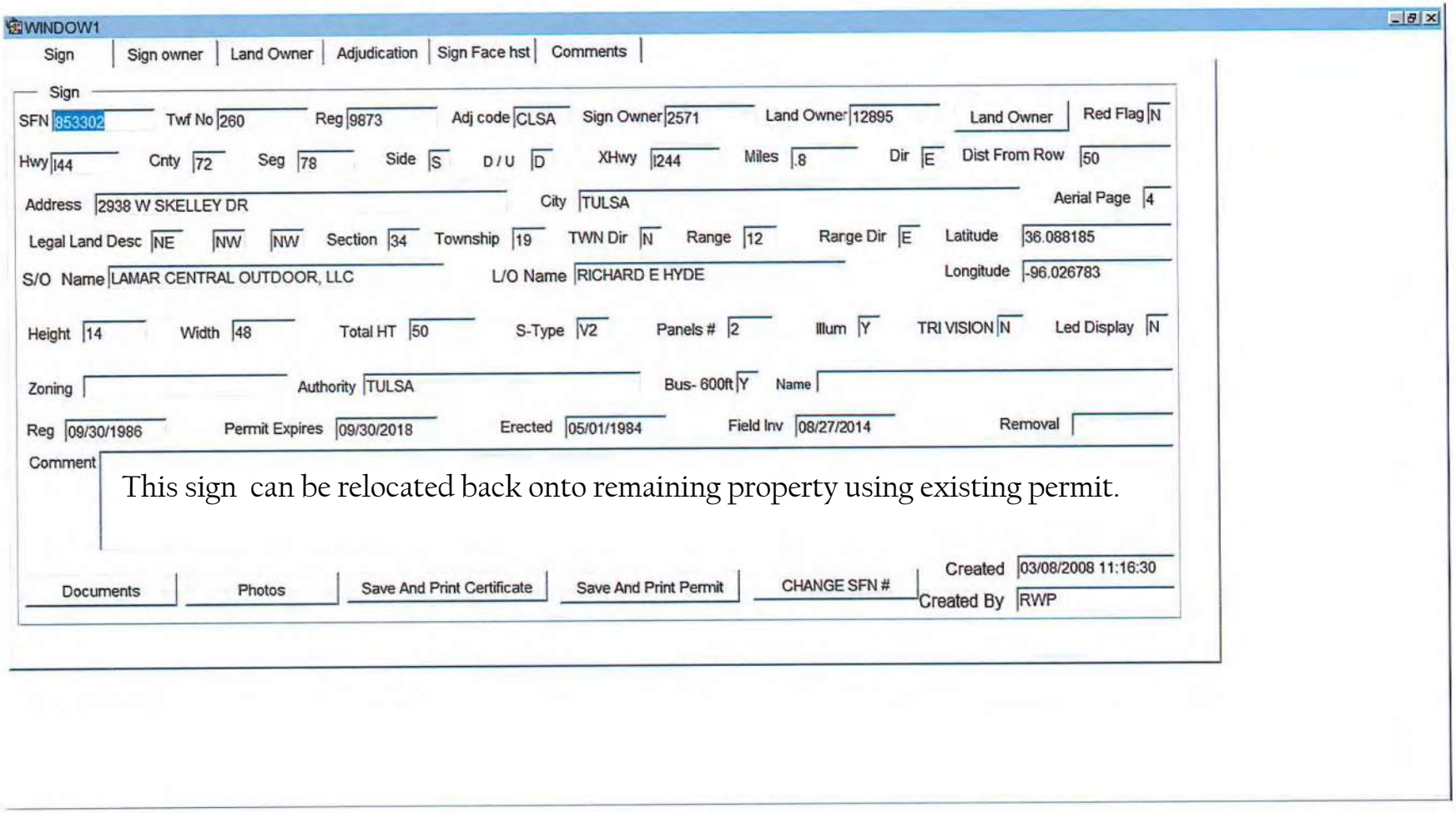
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 352901
Twf No 285
Reg 9587
Adj code CSLP
Sign Owner 2571
Land Owner 14381
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side S
D / U D
XHwy I244
Miles .3
Dir E
Dist From Row 50
Address 4050 W SKELLY DR
City
Aerial Page 2
Legal Land Desc SW NW NE
Section 33
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.087907
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name THOMAS W CHILDS
Longitude -96.037575
Height 14
Width 48
Total HT 60
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority TULSA COUNTY
Bus- 600ft N
Name
Reg 10/30/1984
Permit Expires 12/31/2016
Erected 04/12/1984
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:30
Created By RWP

SFN: 08529-01 REG#: 9587 07-30-2014

SFN: 08529-01 REG#: 9587 07-30-2014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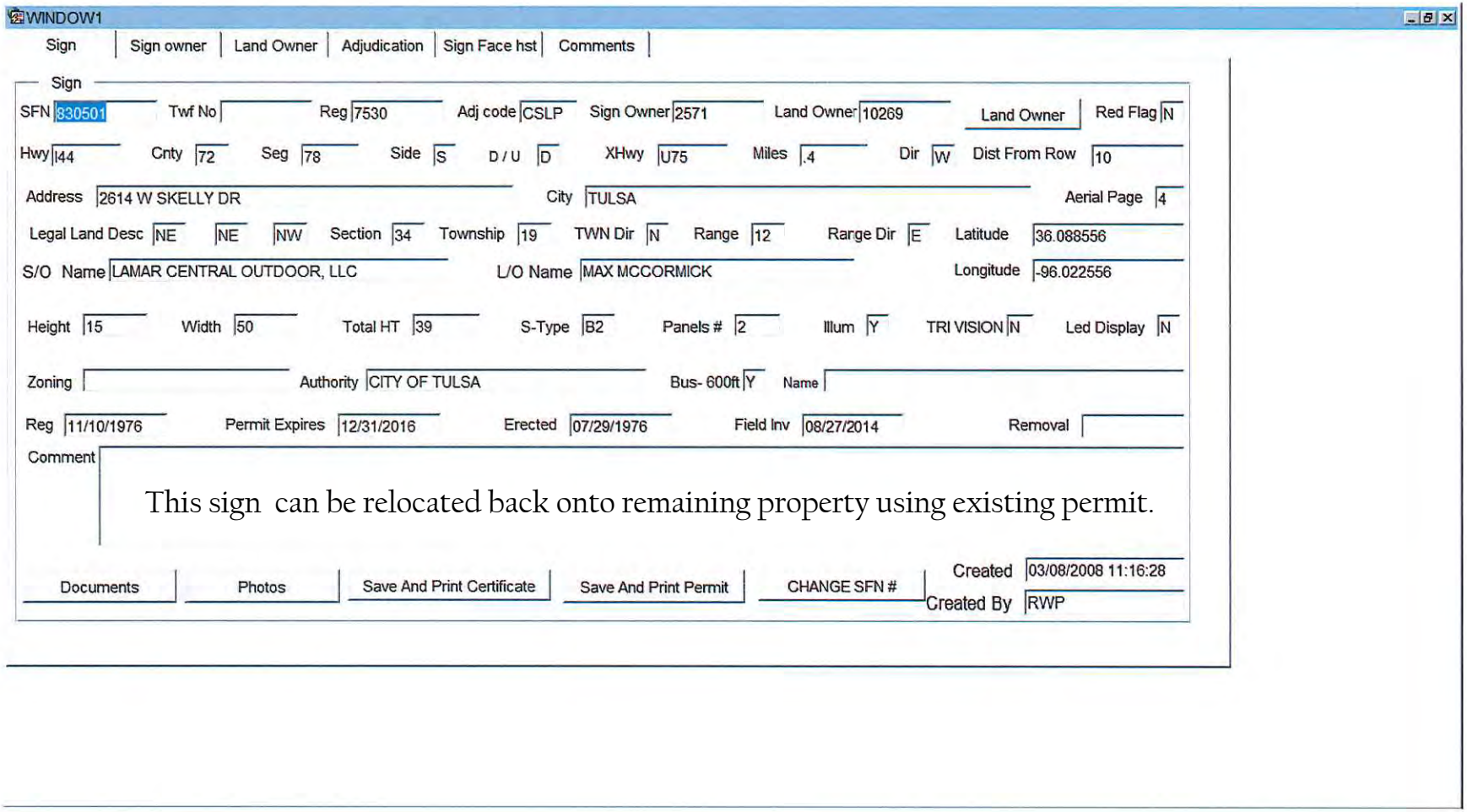
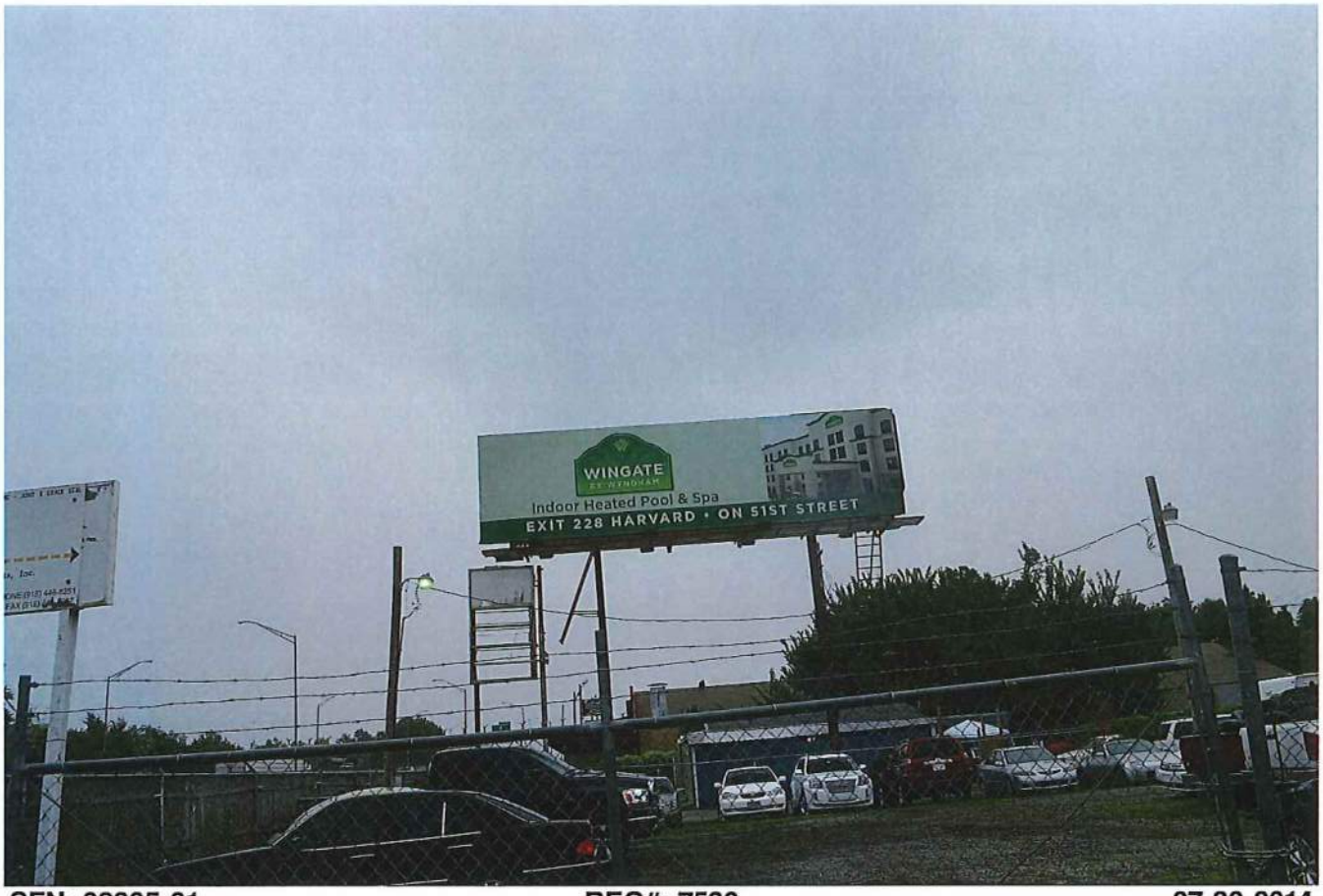
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 853302
Twf No 260
Reg 9873
Adj code CLSA
Sign Owner 2571
Land Owner 12895
Land Owner
Red Flag N
Hwy 144
Cnty 72
Seg 78
Side S
D / U D
XHwy 1244
Miles .8
Dir E
Dist From Row 50
Address 2938 W SKELLEY DR
City TULSA
Aerial Page 4
Legal Land Desc NE NW NW
Section 34
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088185
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name RICHARD E HYDE
Longitude -96.026783
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority TULSA
Bus- 600ft Y
Name
Reg 09/30/1986
Permit Expires 09/30/2018
Erected 05/01/1984
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:30
Created By RWP

SFN: 08533-02 REG#: 9873 07-30-2014

SFN: 08533-02 REG#: 9873 07-30-2014


WINDOW1
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 830501
Twf No
Reg 7530
Adj code CSLP
Sign Owner 2571
Land Owner 10269
Land Owner
Red Flag N
Hwy 44
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles .4
Dir W
Dist From Row 10
Address 2614 W SKELLY DR
City TULSA
Aerial Page 4
Legal Land Desc NE NE NW
Section 34
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088556
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name MAX MCCORMICK
Longitude -96.022556
Height 15
Width 50
Total HT 39
S-Type B2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 11/10/1976
Permit Expires 12/31/2016
Erected 07/29/1976
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:28
Created By RWP



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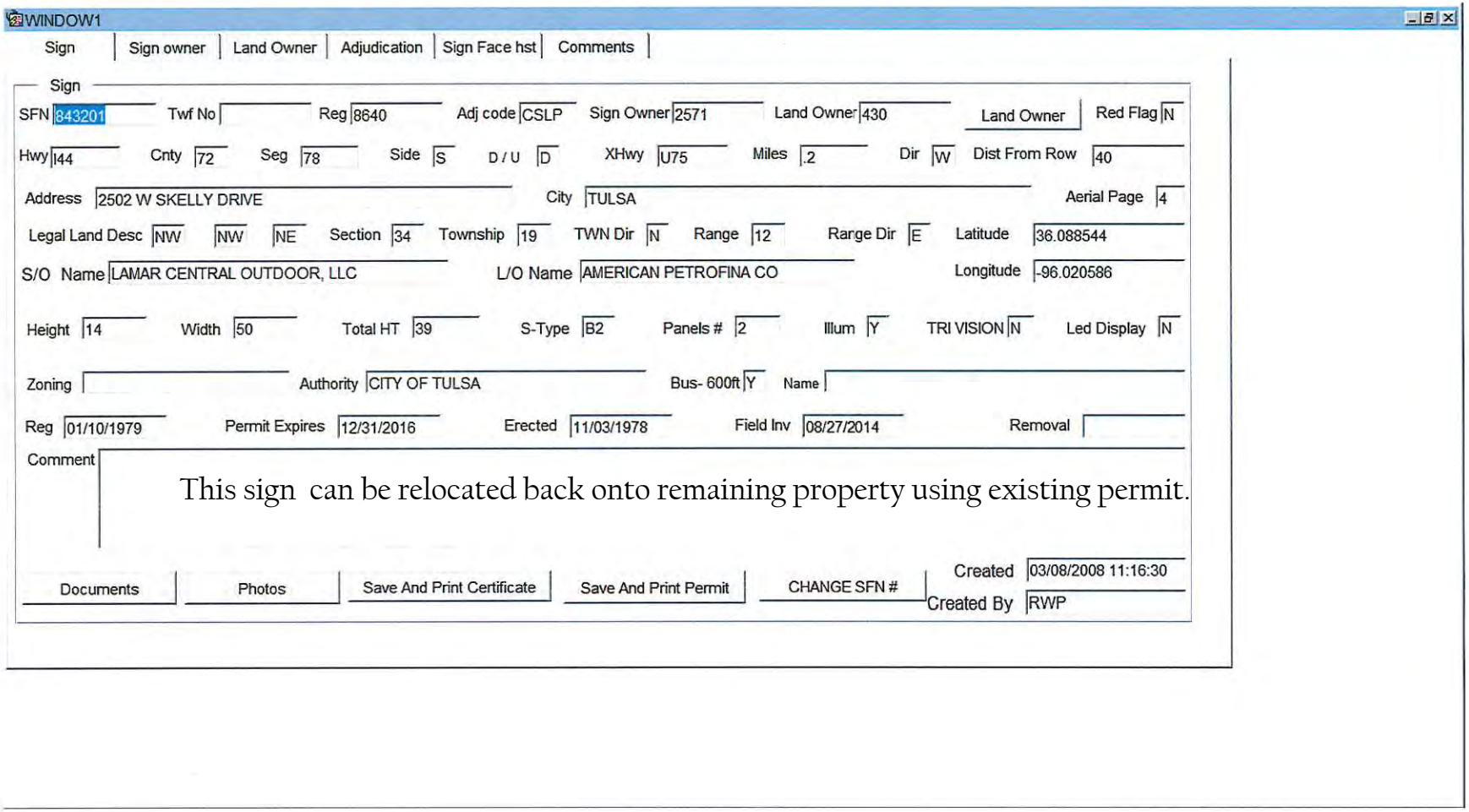
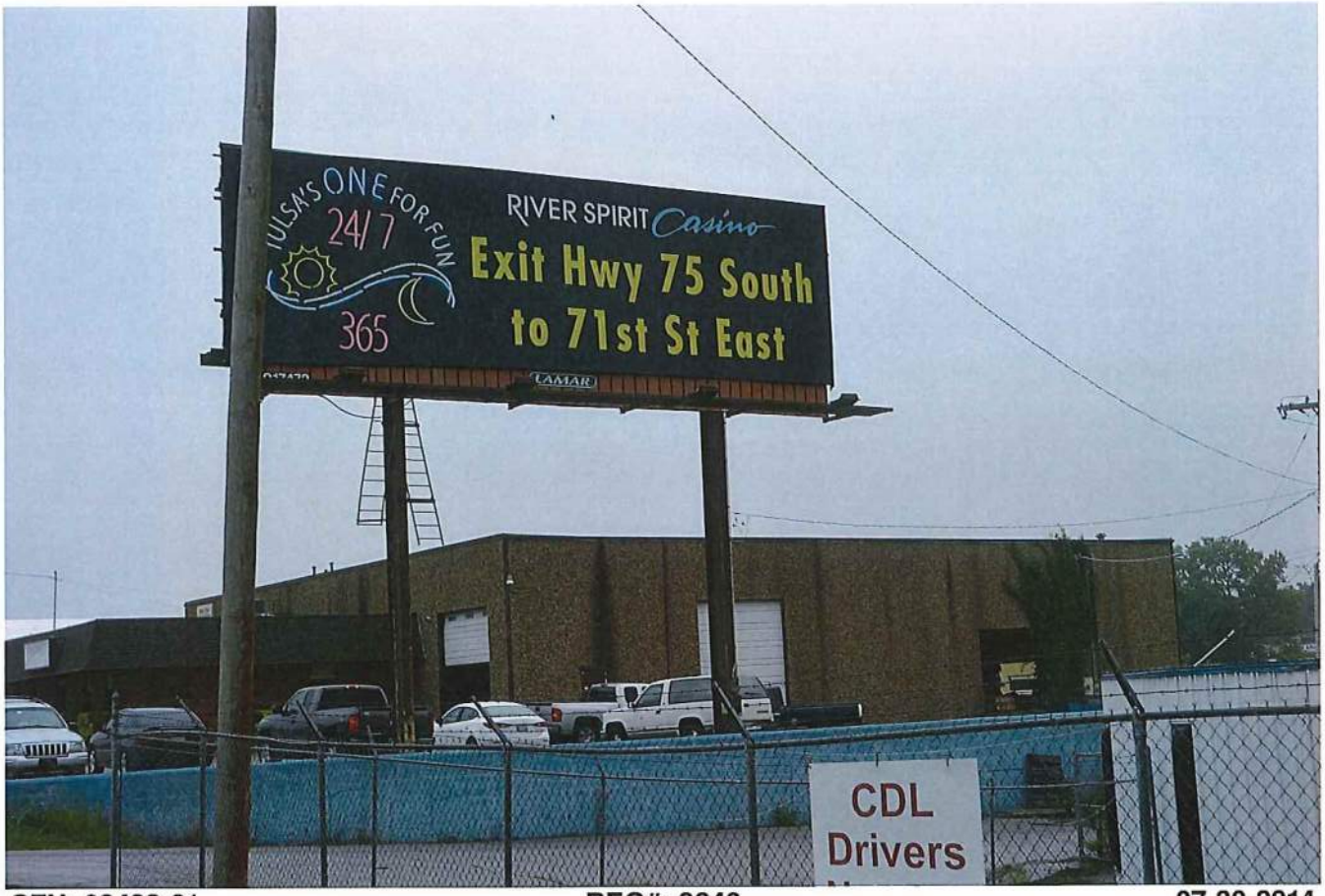
SFN: 08305-01 REG#: 7530 07-30-2014


WINDOW1
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 843201
Twf No
Reg 8640
Adj code CSLP
Sign Owner 2571
Land Owner 430
Land Owner
Red Flag N
Hwy 144
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles .2
Dir W
Dist From Row 40
Address 2502 W SKELLY DRIVE
City TULSA
Aerial Page 4
Legal Land Desc NW NW NE
Section 34
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088544
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name AMERICAN PETROFINA CO
Longitude -96.020586
Height 14
Width 50
Total HT 39
S-Type B2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 01/10/1979
Permit Expires 12/31/2016
Erected 11/03/1978
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:30
Created By RWP



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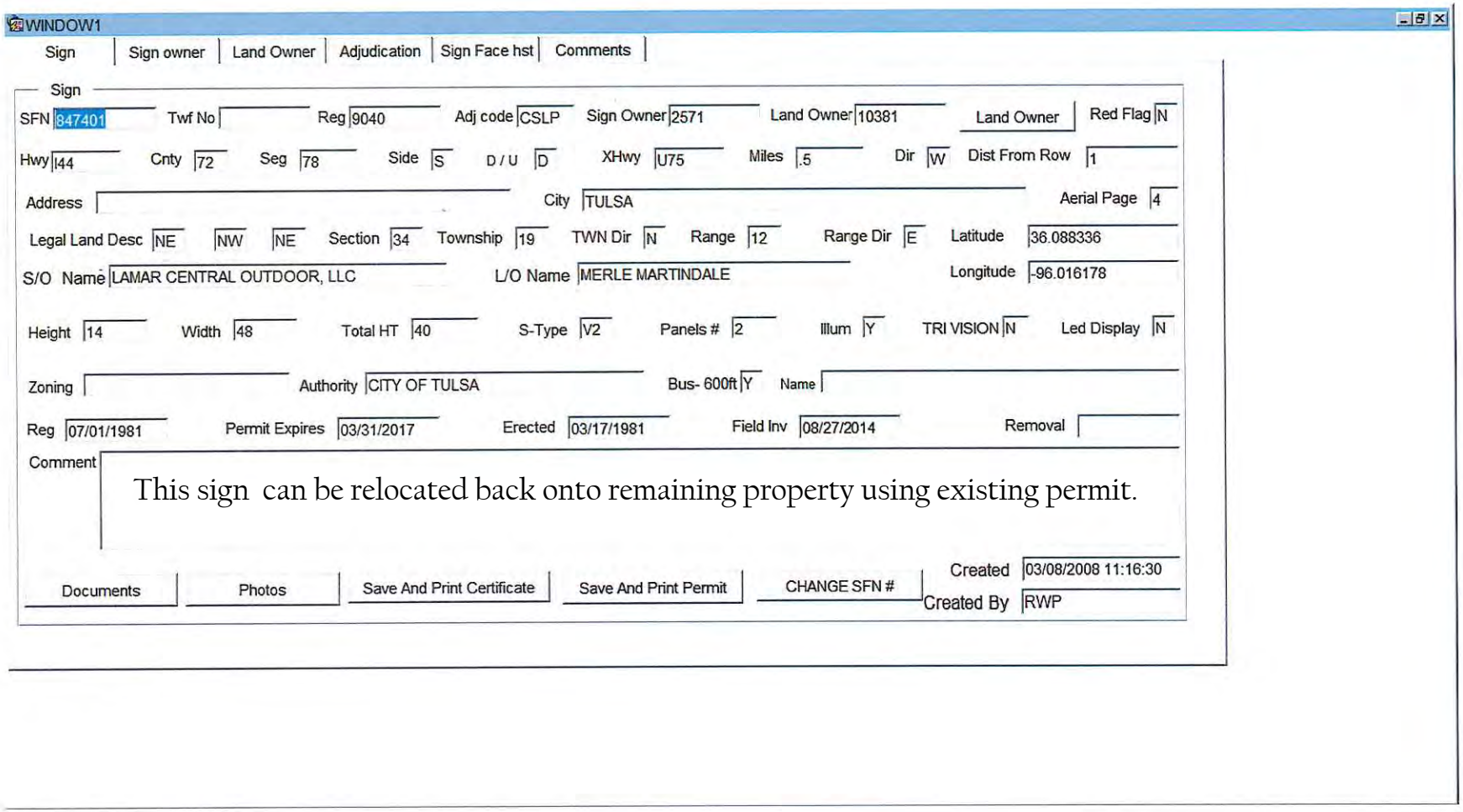
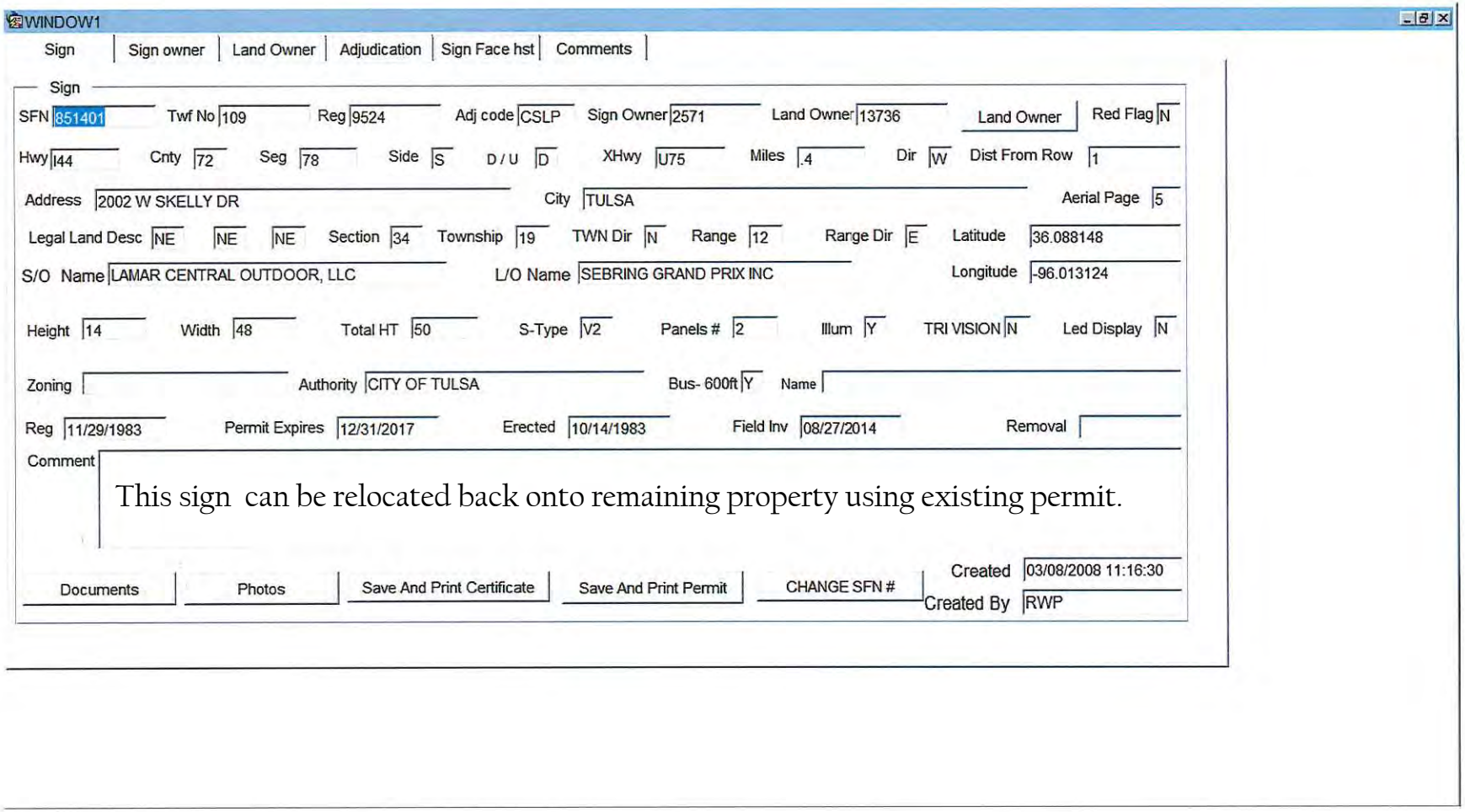

WINDOW1
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 847401
Twf No
Reg 9040
Adj code CSLP
Sign Owner 2571
Land Owner 10381
Land Owner
Red Flag N
Hwy 44
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles .5
Dir W
Dist From Row 1
Address
City TULSA
Aerial Page 4
Legal Land Desc NE NW NE
Section 34
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088336
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name MERLE MARTINDALE
Longitude -96.016178
Height 14
Width 48
Total HT 40
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 07/01/1981
Permit Expires 03/31/2017
Erected 03/17/1981
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:30
Created By RWP

SFN: 08474-01 REG#: 9040 07-30-2014

SFN: 08474-01 REG#: 9040 07-30-2014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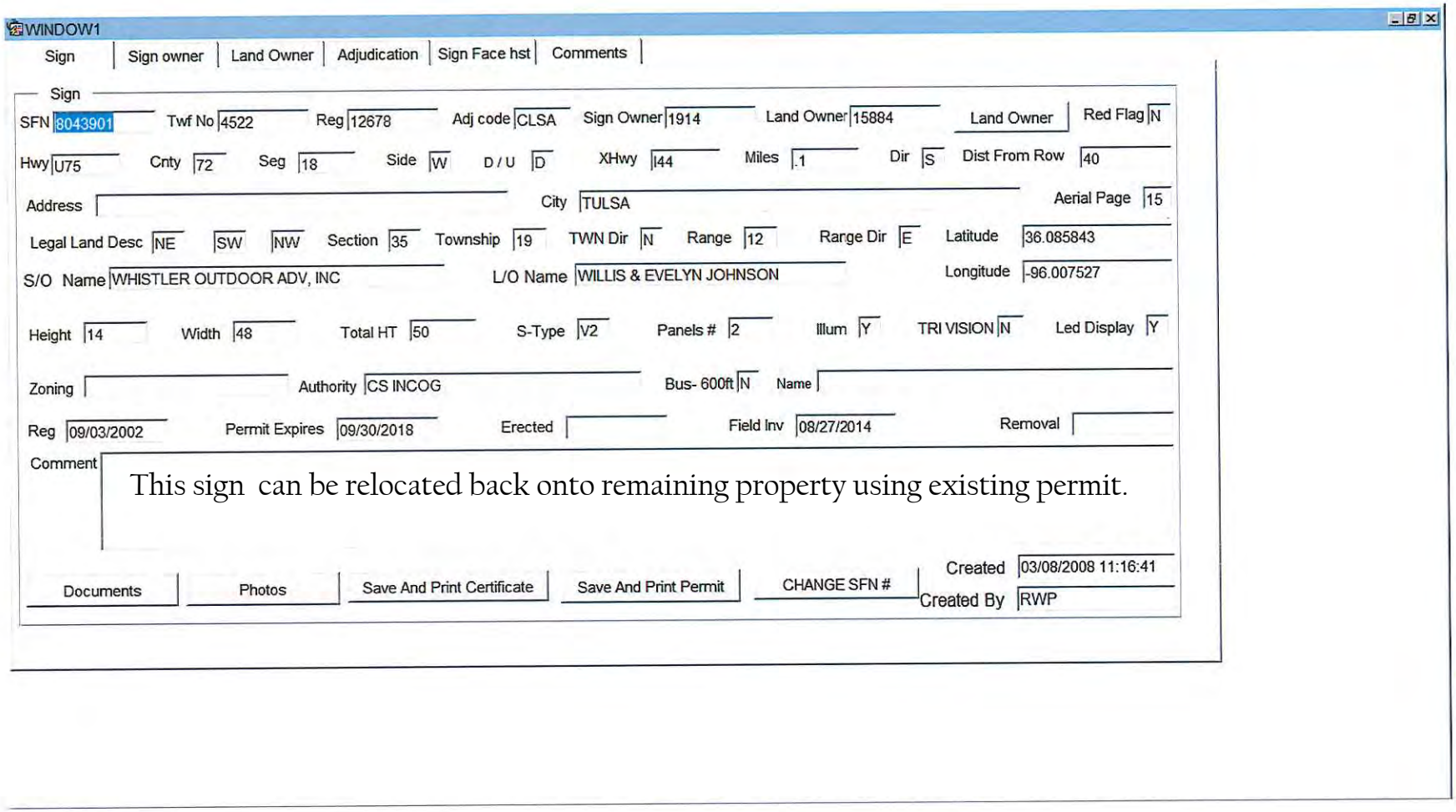
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 351401
Twf No 109
Reg 9524
Adj code CSLP
Sign Owner 2571
Land Owner 13736
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles .4
Dir W
Dist From Row 1
Address 2002 W SKELLY DR
City TULSA
Aerial Page 5
Legal Land Desc NE NE NE
Section 34
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088148
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name SEBRING GRAND PRIX INC
Longitude -96.013124
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 11/29/1983
Permit Expires 12/31/2017
Erected 10/14/1983
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:30
Created By RWP

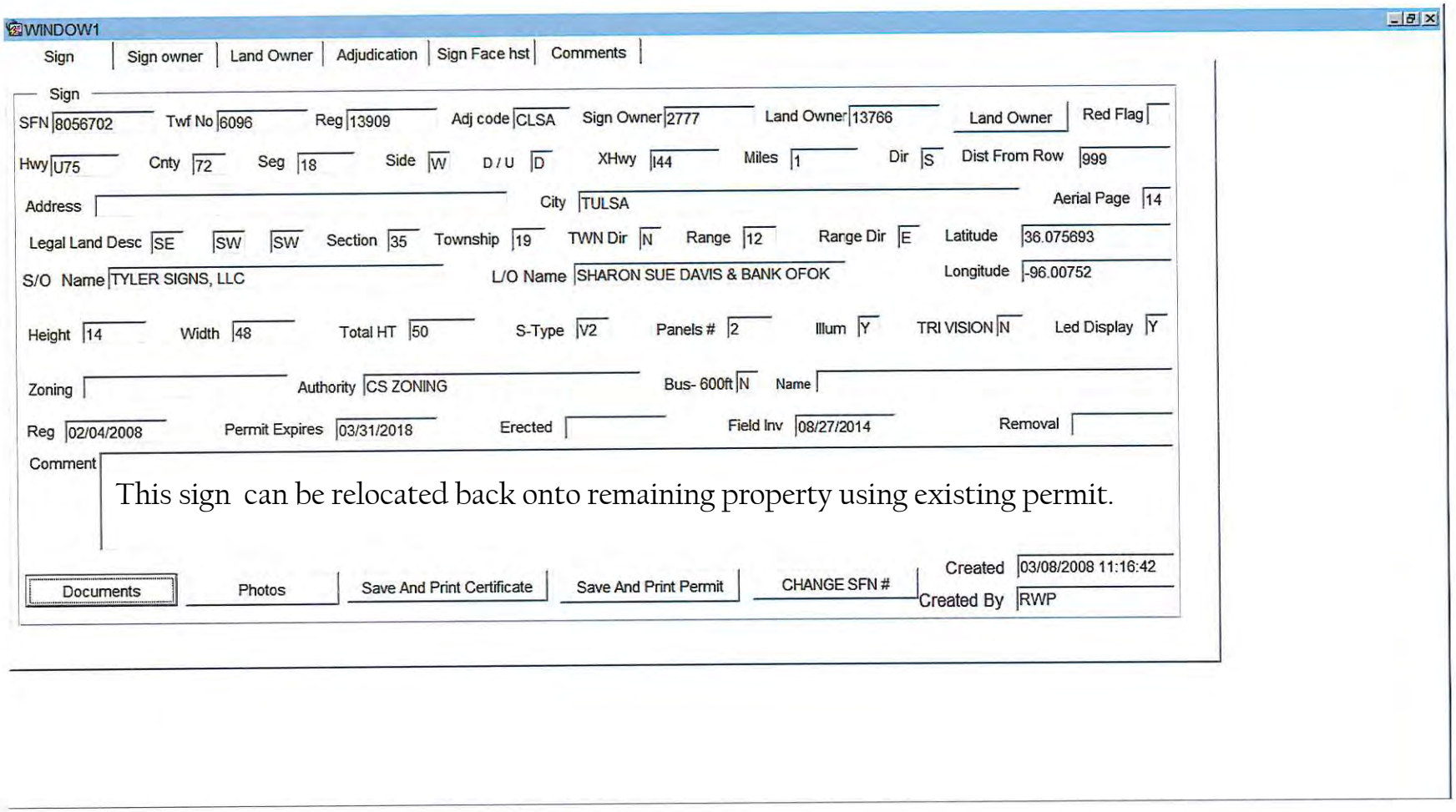
SFN: 08514-01 REG#: 9524 07-30-2014

SFN: 08514-01 REG#: 9524 07-30-2014


WINDOW1
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 8043901
Twf No 4522
Reg 12678
Adj code CLSA
Sign Owner 1914
Land Owner 15884
Land Owner
Red Flag N
Hwy U75
Cnty 72
Seg 18
Side W
D / U D
XHwy I44
Miles .1
Dir S
Dist From Row 40
Address
City TULSA
Aerial Page 15
Legal Land Desc NE SW NW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.085843
S/O Name WHISTLER OUTDOOR ADV, INC
L/O Name WILLIS & EVELYN JOHNSON
Longitude -96.007527
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display Y
Zoning
Authority CS INCOG
Bus- 600ft N
Name
Reg 09/03/2002
Permit Expires 09/30/2018
Erected
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:41
Created By RWP

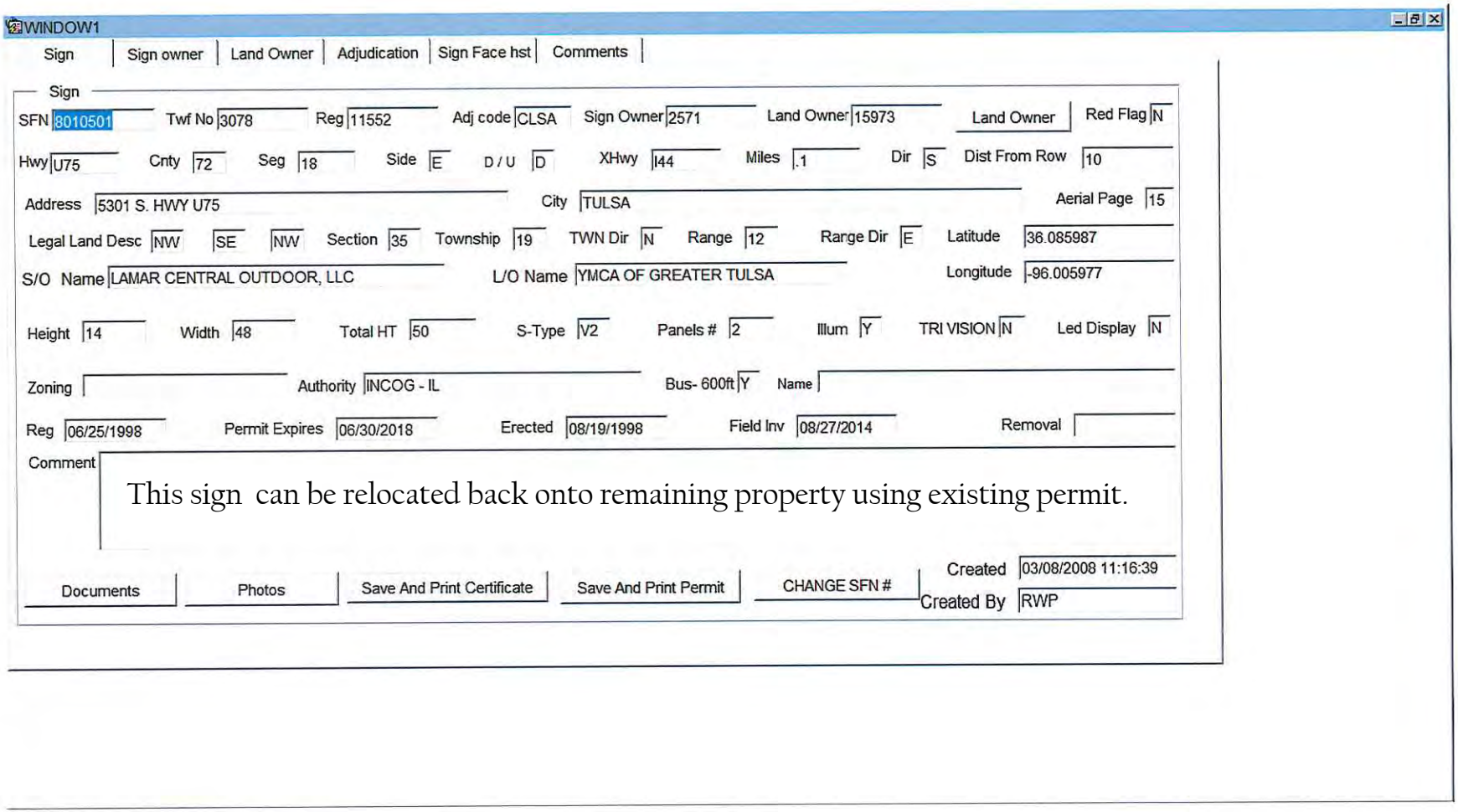
SFN: 80439-01 REG#: 12678 08-08-2014

SFN: 80439-01 REG#: 12678 08-08-2014


WINDOW1
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 8056702
Twf No 6096
Reg 13909
Adj code CLSA
Sign Owner 2777
Land Owner 13766
Land Owner
Red Flag
Hwy U75
Cnty 72
Seg 18
Side W
D / U D
XHwy 144
Miles 1
Dir S
Dist From Row 999
Address
City TULSA
Aerial Page 14
Legal Land Desc SE SW SW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.075693
S/O Name TYLER SIGNS, LLC
L/O Name SHARON SUE DAVIS & BANK OFOK
Longitude -96.00752
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display Y
Zoning
Authority CS ZONING
Bus- 600ft N
Name
Reg 02/04/2008
Permit Expires 03/31/2018
Erected
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:42
Created By RWP

SFN: 80567-02 REG#: 13909 08-08-2014

SFN: 80567-02 REG#: 13909 08-08-2014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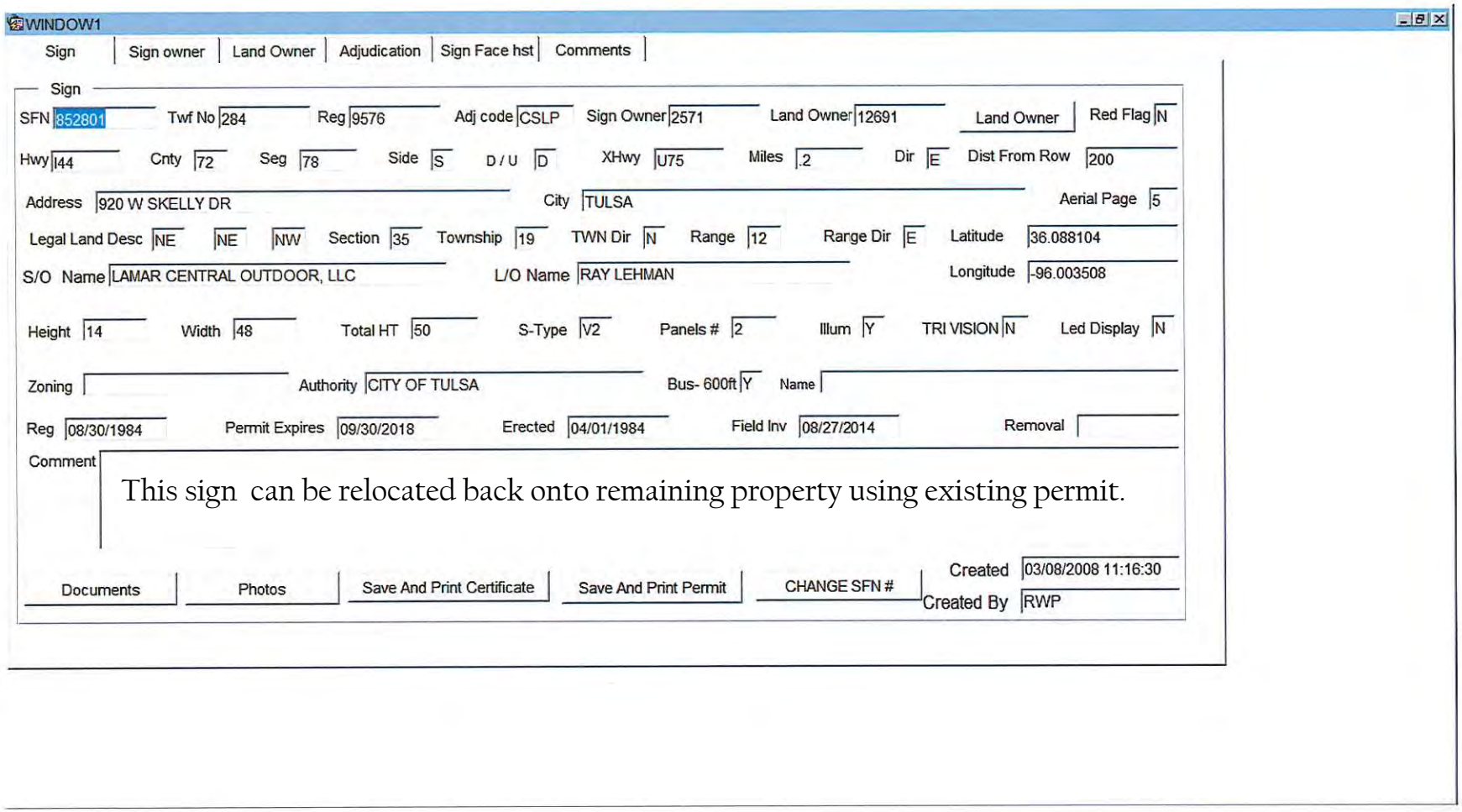
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 8010501
Twf No 3078
Reg 11552
Adj code CLSA
Sign Owner 2571
Land Owner 15973
Land Owner
Red Flag N
Hwy U75
Cnty 72
Seg 18
Side E
D / U D
XHwy I44
Miles .1
Dir S
Dist From Row 10
Address 5301 S. HWY U75
City TULSA
Aerial Page 15
Legal Land Desc NW SE NW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.085987
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name YMCA OF GREATER TULSA
Longitude -96.005977
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority INCOG - IL
Bus- 600ft Y
Name
Reg 06/25/1998
Permit Expires 06/30/2018
Erected 08/19/1998
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:39
Created By RWP

SFN: 80105-01 REG#: 11552 08-08-2014

SFN: 80105-01 REG#: 11552 08-08-2014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Sign
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Comments
Sign
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Twf No 284
Reg 9576
Adj code CSLP
Sign Owner 2571
Land Owner 12691
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles .2
Dir E
Dist From Row 200
Address 920 W SKELLY DR
City TULSA
Aerial Page 5
Legal Land Desc NE NE NW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088104
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name RAY LEHMAN
Longitude -96.003508
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 08/30/1984
Permit Expires 09/30/2018
Erected 04/01/1984
Field Inv 08/27/2014
Removal
Comment
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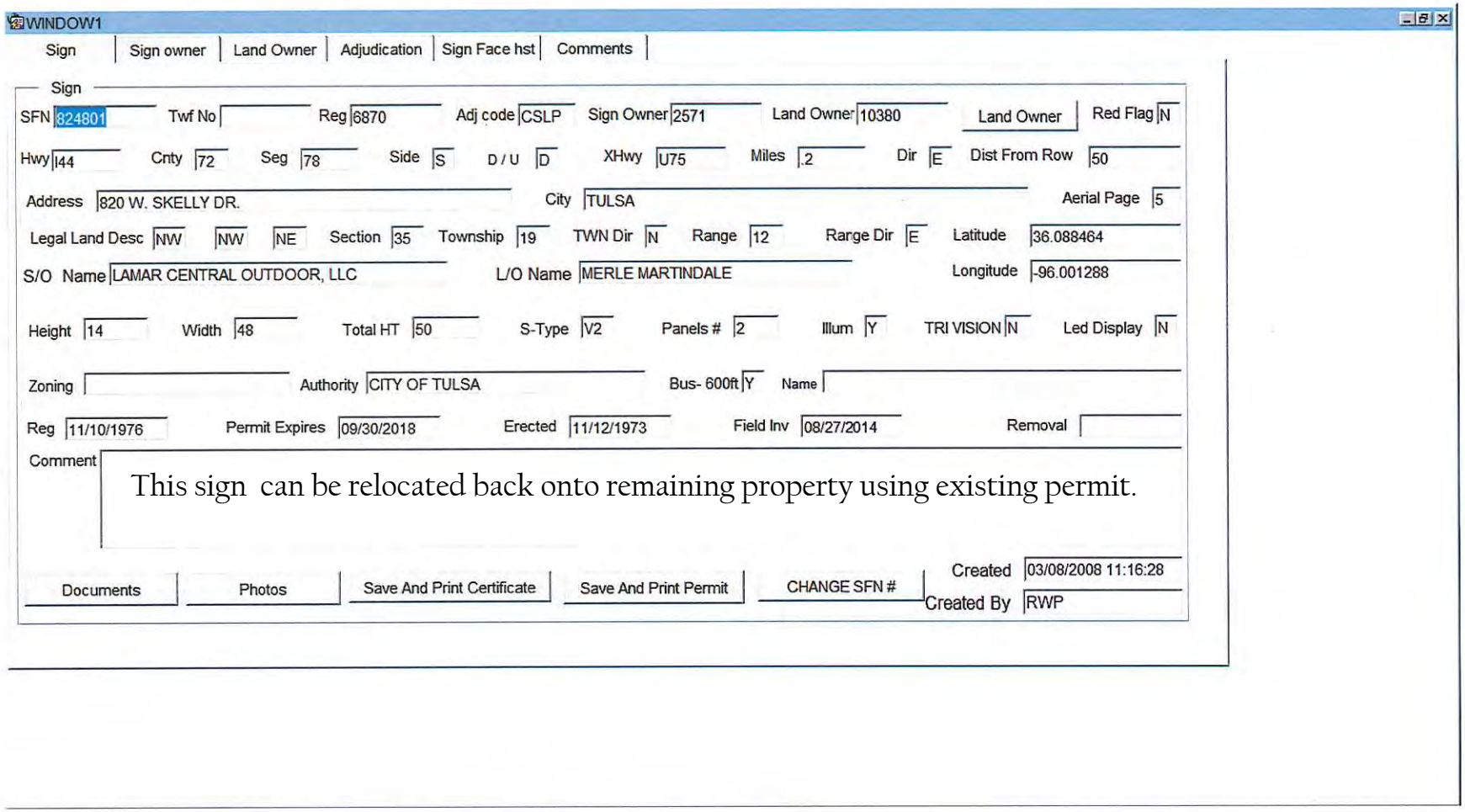
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:30
Created By RWP

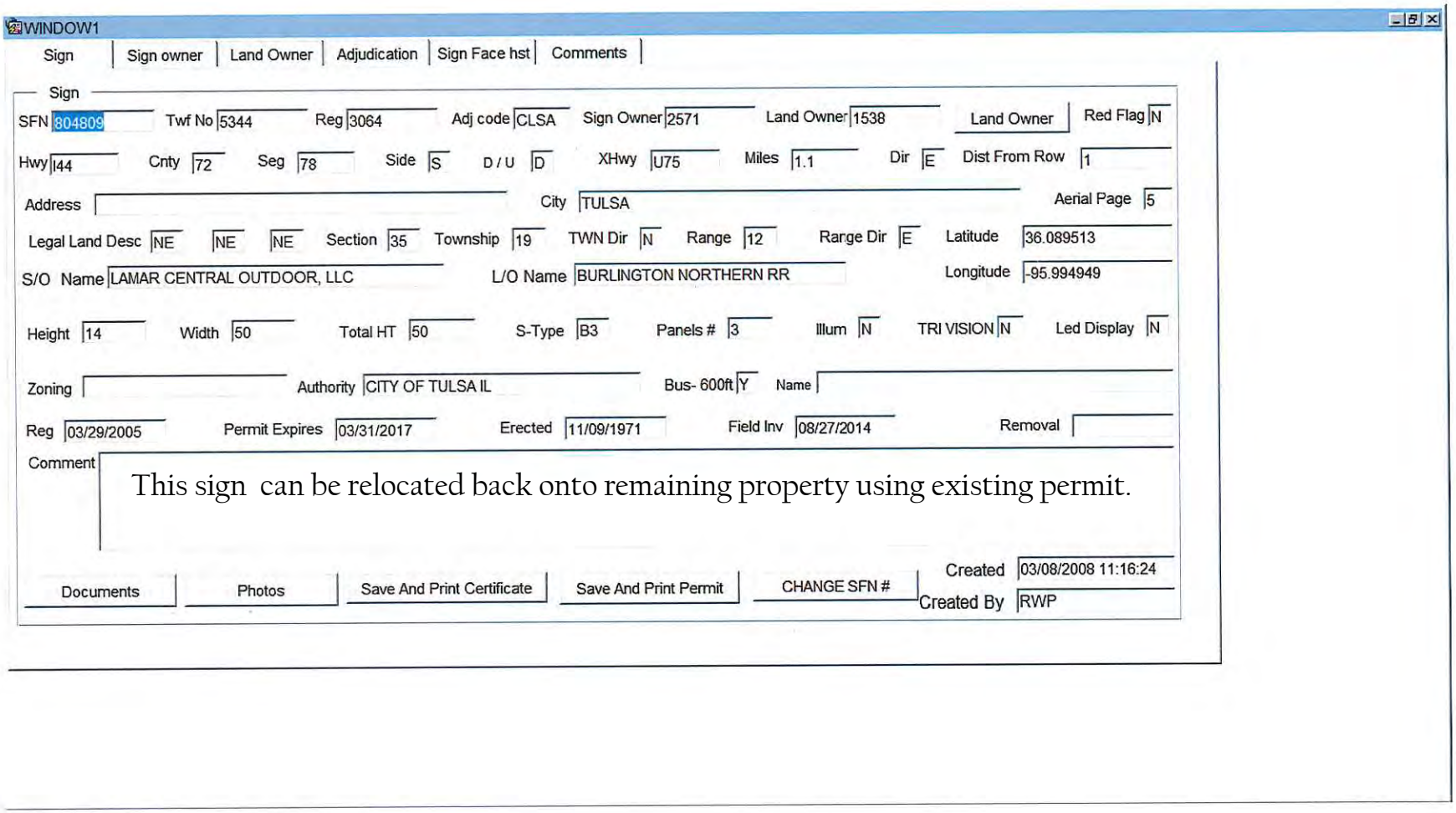
SFN: 08528-01 REG#: 9576 07-30-2014

SFN: 08528-01 REG#: 9576 07-30-2014


WINDOW1
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 824801
Twf No
Reg 6870
Adj code CSLP
Sign Owner 2571
Land Owner 10380
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles .2
Dir E
Dist From Row 50
Address 820 W. SKELLY DR.
City TULSA
Aerial Page 5
Legal Land Desc NW NW NE
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.088464
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name MERLE MARTINDALE
Longitude -96.001288
Height 14
Width 48
Total HT 50
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 11/10/1976
Permit Expires 09/30/2018
Erected 11/12/1973
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:28
Created By RWP

SFN: 08248-01 REG#: 6870 07-30-2014

SFN: 08248-01 REG#: 6870 07-30-2014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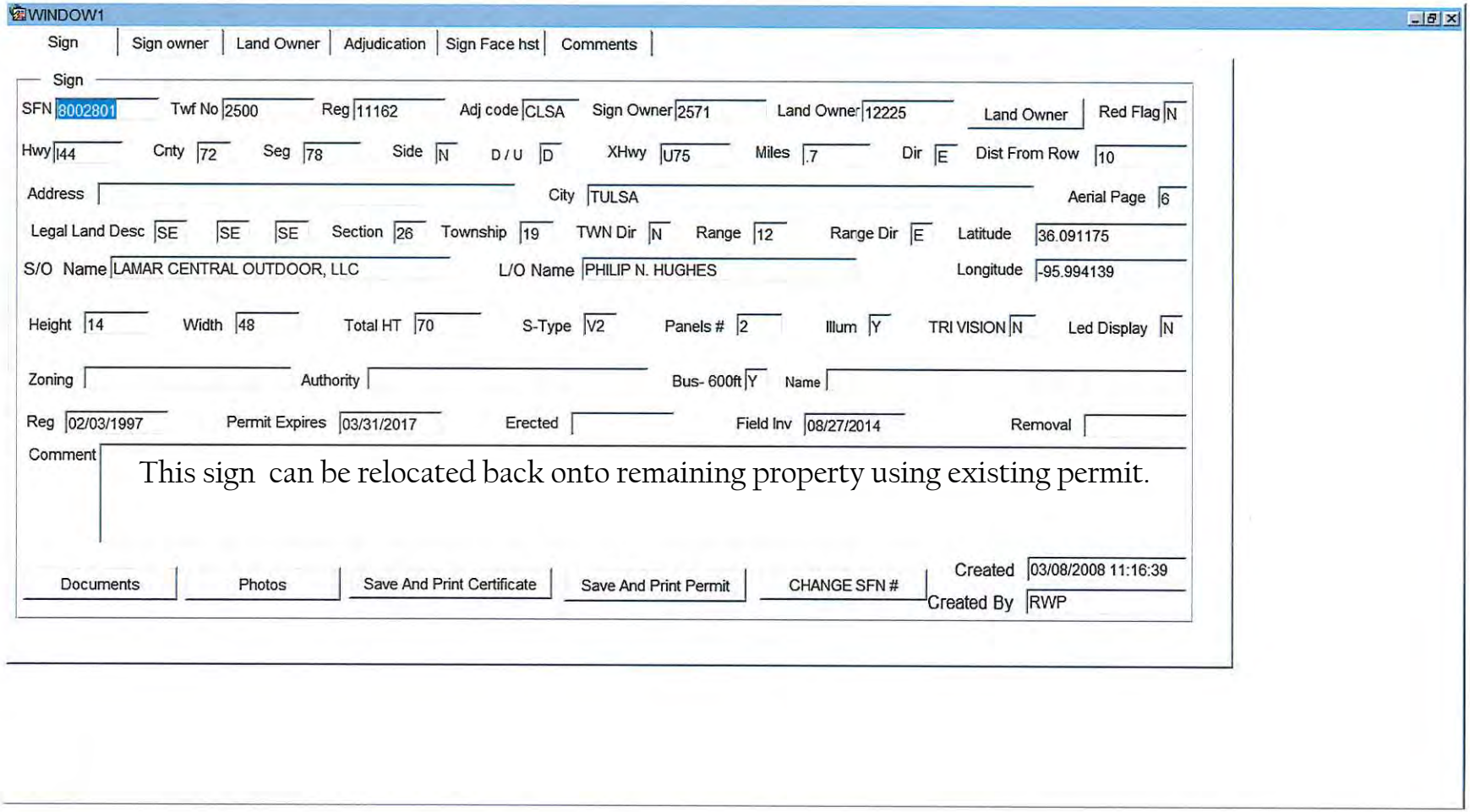
Sign
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 804809
Twf No 5344
Reg 3064
Adj code CLSA
Sign Owner 2571
Land Owner 1538
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side S
D / U D
XHwy U75
Miles 1.1
Dir E
Dist From Row 1
Address
City TULSA
Aerial Page 5
Legal Land Desc NE NE NE
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.089513
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name BURLINGTON NORTHERN RR
Longitude -95.994949
Height 14
Width 50
Total HT 50
S-Type B3
Panels # 3
Illum N
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA IL
Bus- 600ft Y
Name
Reg 03/29/2005
Permit Expires 03/31/2017
Erected 11/09/1971
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:24
Created By RWP

SFN: 08048-09 REG#: 3064 07-30-2014

SFN: 08048-09 REG#: 3064 07-30-2014


WINDOW1
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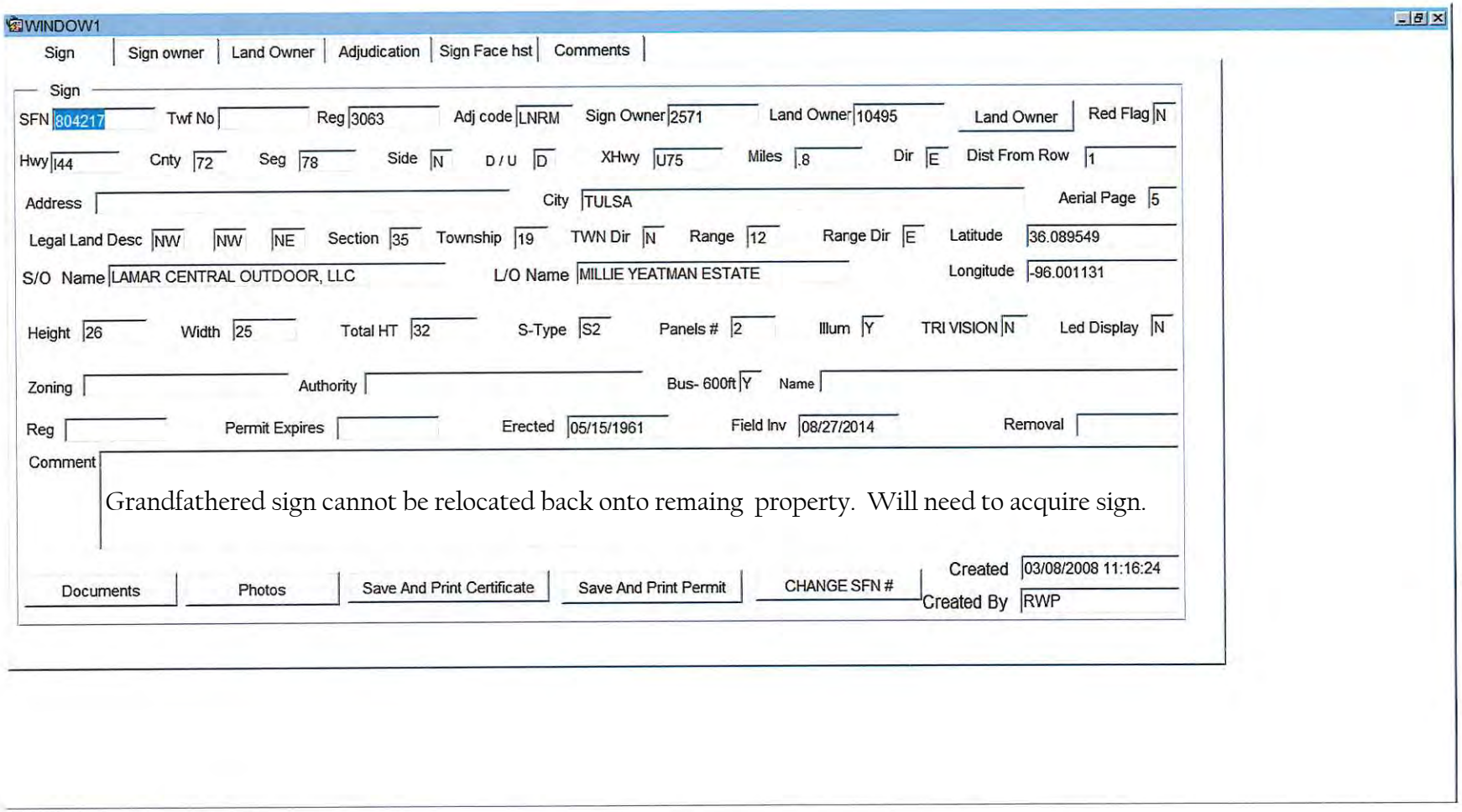
Sign owner
Land Owner
Adjudication
Sign Face hst
Comments
Sign
SFN 8002801
Twf No 2500
Reg 11162
Adj code CLSA
Sign Owner 2571
Land Owner 12225
Land Owner
Red Flag N
Hwy 44
Cnty 72
Seg 78
Side N
D / U D
XHwy U75
Miles .7
Dir E
Dist From Row 10
Address
City TULSA
Aerial Page 6
Legal Land Desc SE SE SE
Section 26
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.091175
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name PHILIP N. HUGHES
Longitude -95.994139
Height 14
Width 48
Total HT 70
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority
Bus- 600ft Y
Name
Reg 02/03/1997
Permit Expires 03/31/2017
Erected
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:39
Created By RWP

SFN: 80028-01 REG#: 11162 07-31-2014

SFN: 80028-01 REG#: 11162 07-31-2014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Comments
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SFN 304217
Twf No
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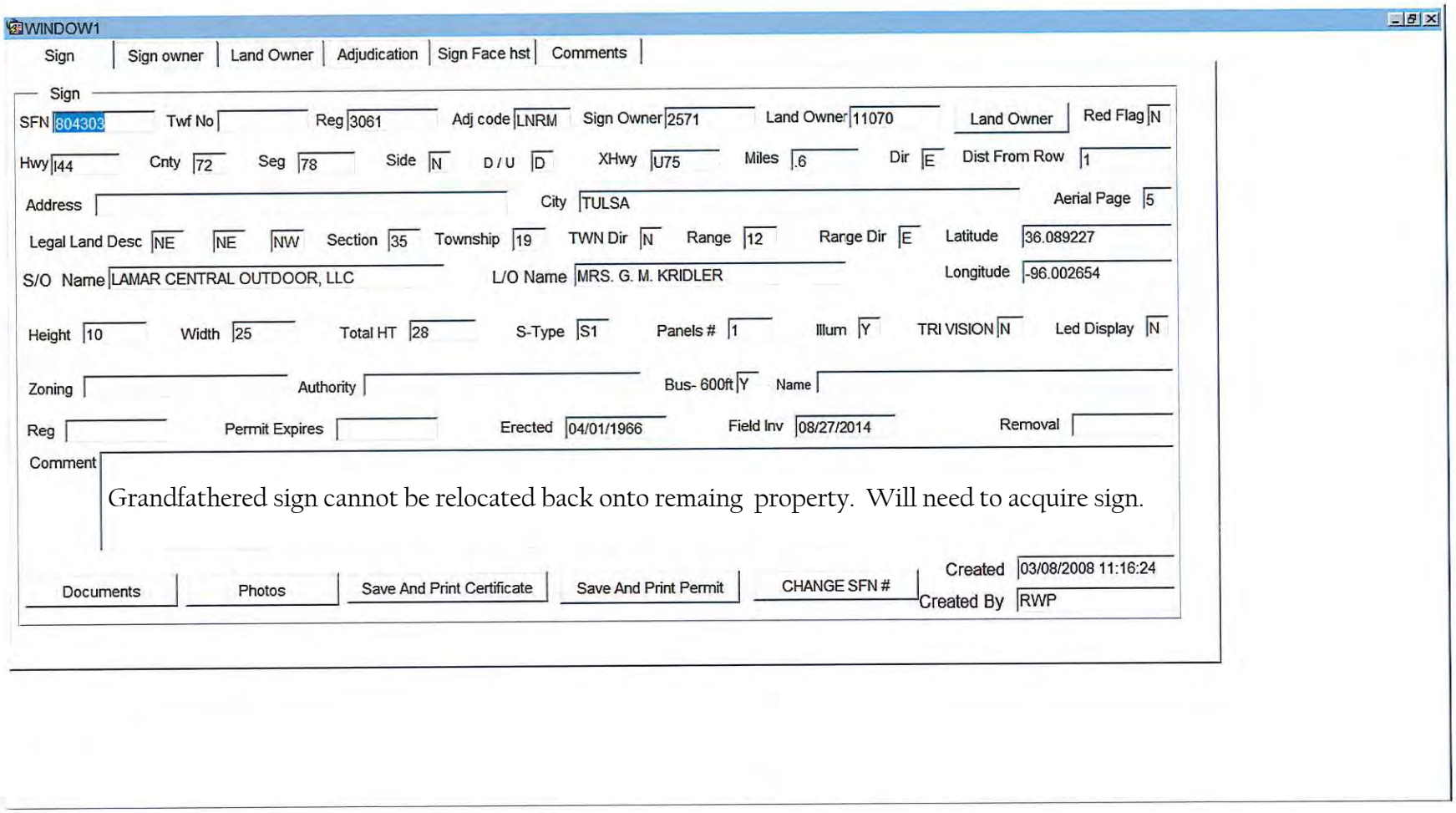
Sign Owner 2571
Land Owner 10495
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side N
D / U D
XHwy U75
Miles .8
Dir E
Dist From Row 1
Address
City TULSA
Aerial Page 5
Legal Land Desc NW NW NE
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.089549
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name MILLIE YEATMAN ESTATE
Longitude -96.001131
Height 26
Width 25
Total HT 32
S-Type S2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority
Bus- 600ft Y
Name
Reg
Permit Expires
Erected 05/15/1961
Field Inv 08/27/2014
Removal
Comment
Grandfathered sign cannot be relocated back onto remaing property. Will need to acquire sign.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:24
Created By RWP

SFN: 08042-17 REG#: 3063 07-31-2014

SFN: 08042-17 REG#: 3063 07-31-2014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Sign
Sign owner
Land Owner
Adjudication
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Comments
Sign
SFN 304303
Twf No
Reg 3061
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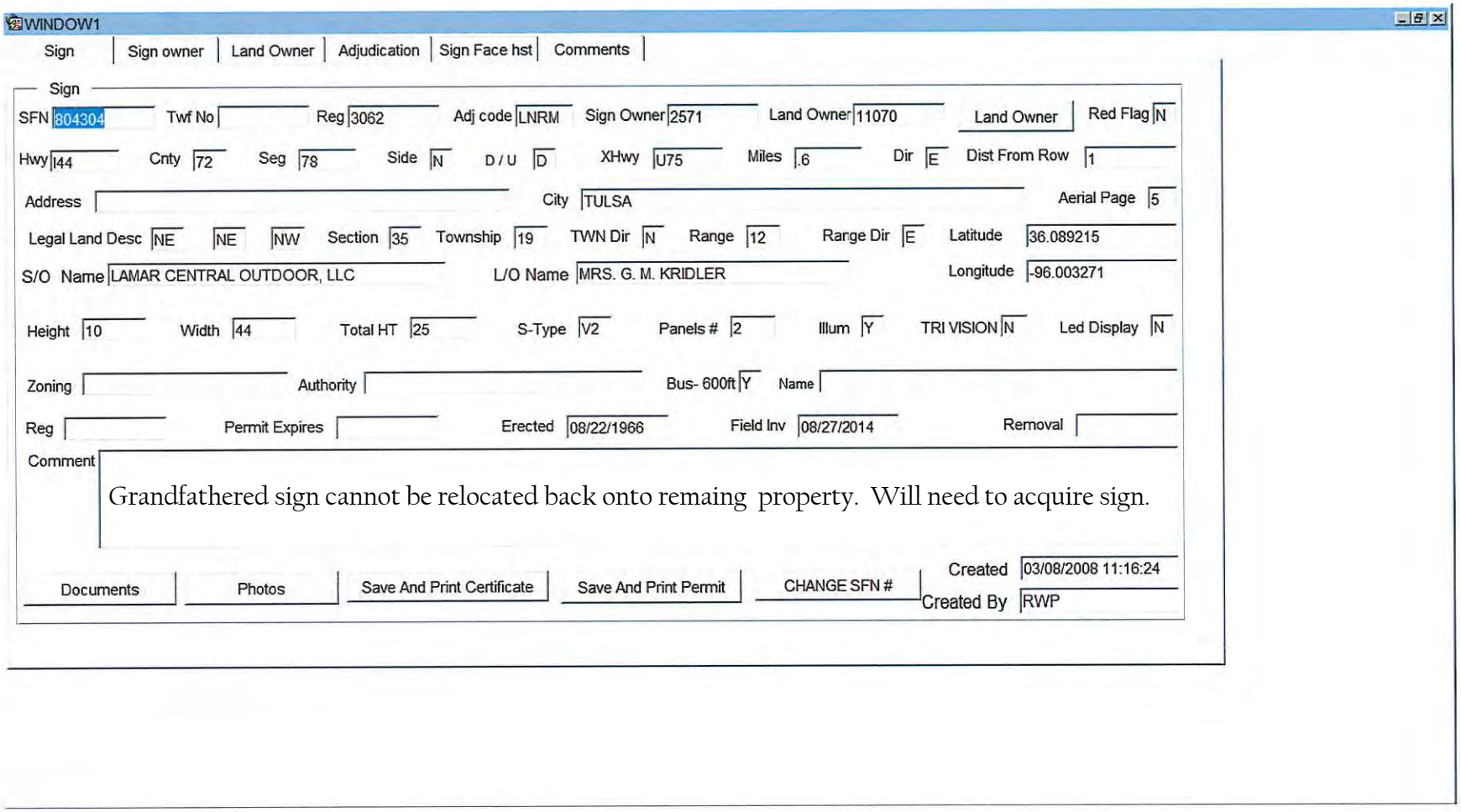
Sign Owner 2571
Land Owner 11070
Land Owner
Red Flag N
Hwy 44
Cnty 72
Seg 78
Side N
D / U D
XHwy U75
Miles .6
Dir E
Dist From Row 1
Address
City TULSA
Aerial Page 5
Legal Land Desc NE NE NW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.089227
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name MRS. G. M. KRIDLER
Longitude -96.002654
Height 10
Width 25
Total HT 28
S-Type S1
Panels # 1
Illum Y
TRI VISION N
Led Display N
Zoning
Authority
Bus- 600ft Y
Name
Reg
Permit Expires
Erected 04/01/1966
Field Inv 08/27/2014
Removal
Comment
Grandfathered sign cannot be relocated back onto remaing property. Will need to acquire sign.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:24
Created By RWP

SFN: 08043-03 REG#: 3061 07-31-2014


WINDOW1
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Sign owner
Land Owner
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Comments
Sign
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Twf No
Reg 3062
Adj code LNRM
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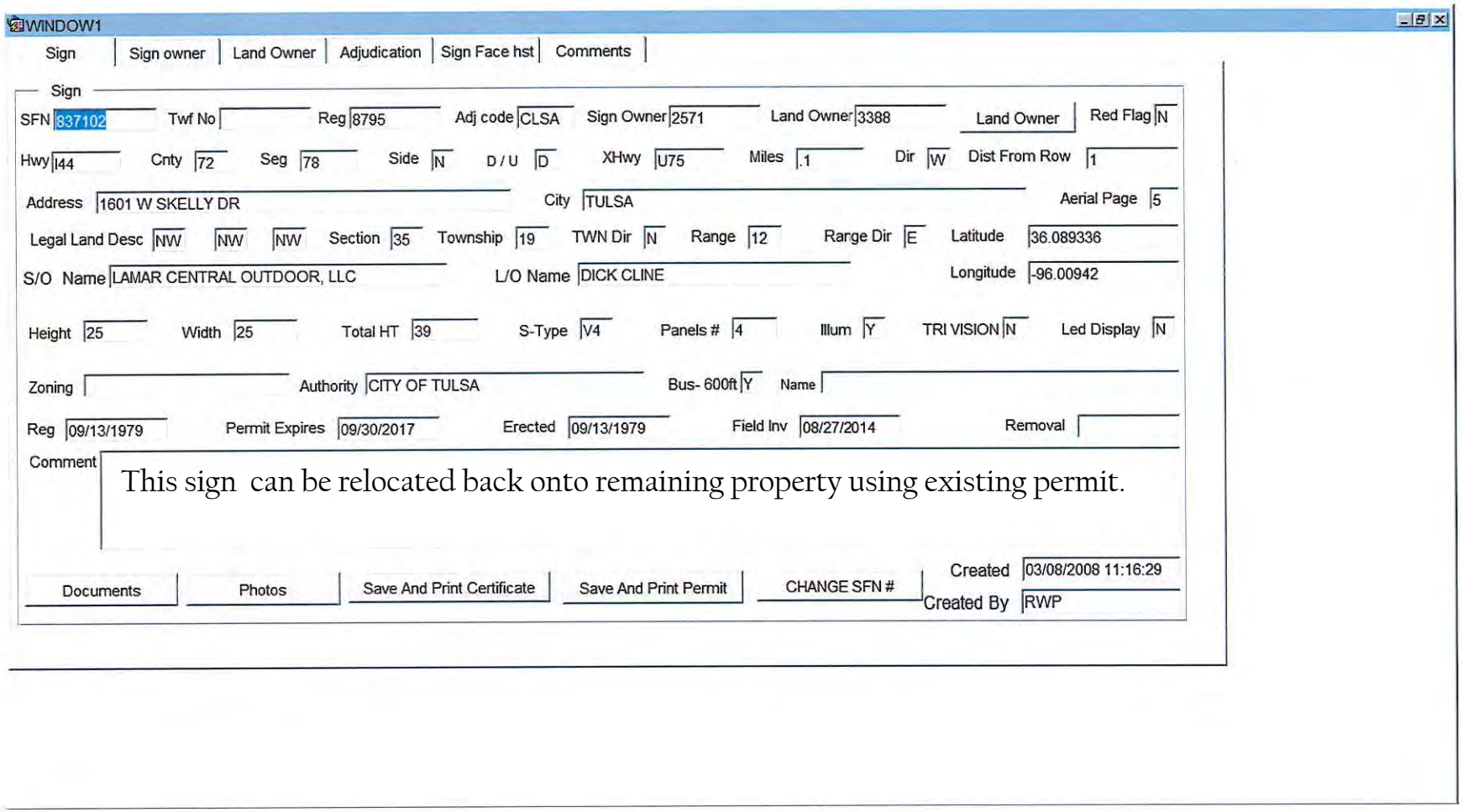
Land Owner 11070
Land Owner
Red Flag N
Hwy 44
Cnty 72
Seg 78
Side N
D / U D
XHwy U75
Miles .6
Dir E
Dist From Row 1
Address
City TULSA
Aerial Page 5
Legal Land Desc NE NE NW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.089215
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name MRS. G. M. KRIDLER
Longitude -96.003271
Height 10
Width 44
Total HT 25
S-Type V2
Panels # 2
Illum Y
TRI VISION N
Led Display N
Zoning
Authority
Bus- 600ft Y
Name
Reg
Permit Expires
Erected 08/22/1966
Field Inv 08/27/2014
Removal
Comment
Grandfathered sign cannot be relocated back onto remaing property. Will need to acquire sign.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:24
Created By RWP

SFN: 08043-04 REG#: 3062 07-31-2014

SFN: 08043-04 REG#: 3062 07-31-2014


WINDOW1
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Sign owner
Land Owner
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Sign Face hst
Comments
Sign
SFN 837102
Twf No
Reg 8795
Adj code CLSA
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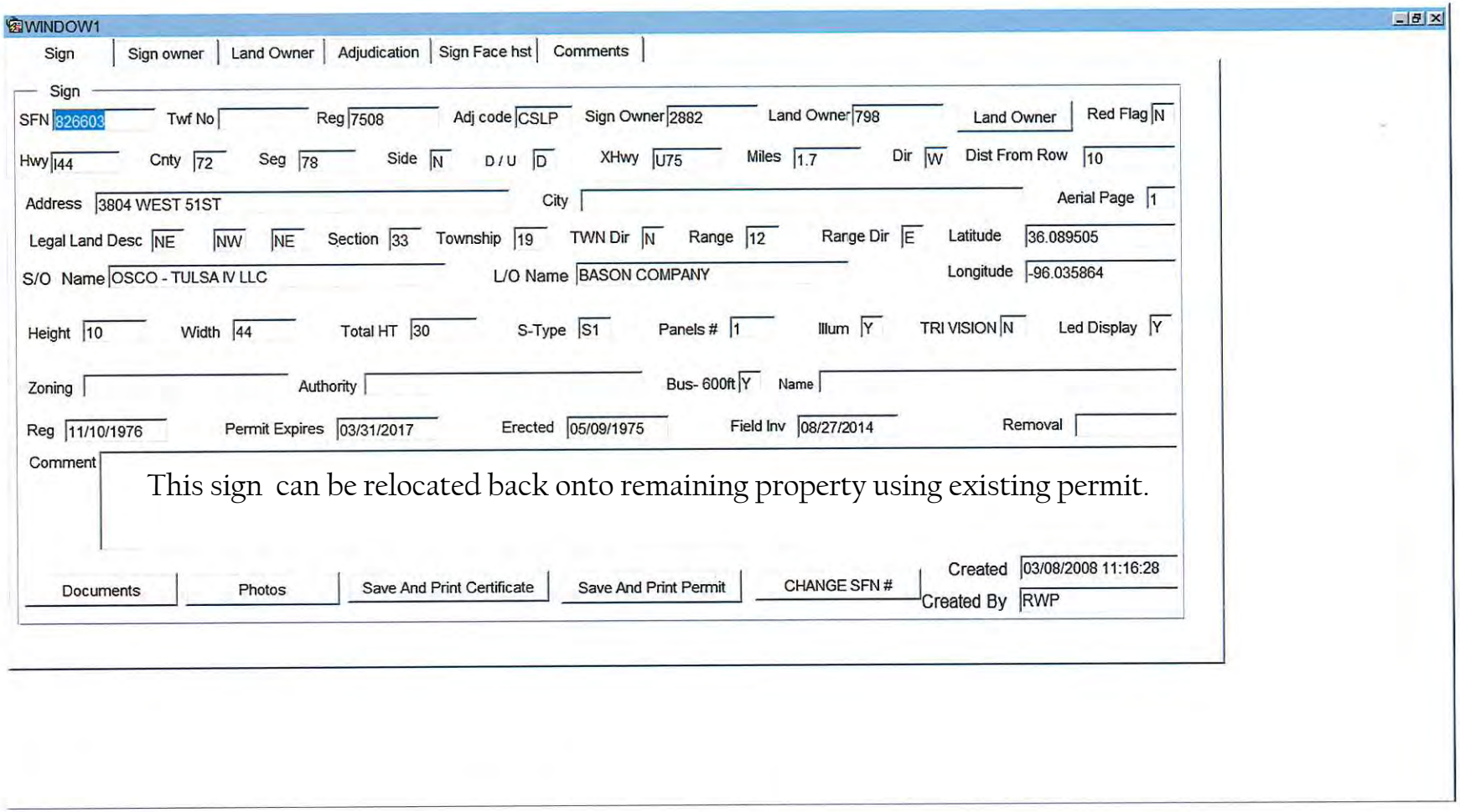
Land Owner 3388
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side N
D / U D
XHwy U75
Miles .1
Dir W
Dist From Row 1
Address 1601 W SKELLY DR
City TULSA
Aerial Page 5
Legal Land Desc NW NW NW
Section 35
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.089336
S/O Name LAMAR CENTRAL OUTDOOR, LLC
L/O Name DICK CLINE
Longitude -96.00942
Height 25
Width 25
Total HT 39
S-Type V4
Panels # 4
Illum Y
TRI VISION N
Led Display N
Zoning
Authority CITY OF TULSA
Bus- 600ft Y
Name
Reg 09/13/1979
Permit Expires 09/30/2017
Erected 09/13/1979
Field Inv 08/27/2014
Removal
Comment
This sign can be relocated back onto remaining property using existing permit.
Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:29
Created By RWP

SFN: 08371-02 REG#: 8795 07-31-2014

SFN: 08371-02 REG#: 8795 07-31-2014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Land Owner 798
Land Owner
Red Flag N
Hwy I44
Cnty 72
Seg 78
Side N
D / U D
XHwy U75
Miles 1.7
Dir W
Dist From Row 10
Address 3804 WEST 51ST
City
Aerial Page 1
Legal Land Desc NE NW NE
Section 33
Township 19
TWN Dir N
Range 12
Range Dir E
Latitude 36.089505
S/O Name OSCO - TULSA IV LLC
L/O Name BASON COMPANY
Longitude -96.035864
Height 10
Width 44
Total HT 30
S-Type S1
Panels # 1
Illum Y
TRI VISION N
Led Display Y
Zoning
Authority
Bus- 600ft Y
Name
Reg 11/10/1976
Permit Expires 03/31/2017
Erected 05/09/1975
Field Inv 08/27/2014
Removal
Comment
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Documents
Photos
Save And Print Certificate
Save And Print Permit
CHANGE SFN #
Created 03/08/2008 11:16:28
Created By RWP

SFN: 08266-03 REG#: 7508 07-31-2014

SFN: 08266-03 REG#: 7508 07-31-2014

I-44 Tulsa Co.

826603 7508

852901 9587

853302 9873

847401 9040

851401 9524

824801 6870

8043901 12678

8010501 11552

8002801 11162

804809 3064

8069601 14108

8056702 13909

244

75

W 55th St

W 57th St

S 33rd W Ave

S 32nd W Ave

S 31st W Ave

S 30th W Ave

S Union Ave

W 63rd St S

E Skelly Dr

E 55th St

E 56th St

E 60th St

E 61st St

River Parks West Trail

Riverside Dr

Google earth

© 2016 Google

© 2016 Europa Technologies

2000 ft

N

Cultural Resources

ODOT CULTURAL RESOURCES PROGRAM
PROJECT RECONNAISSANCE REVIEW

County:	Tulsa	**Job Piece Number:**	32728(04)
Project No:	Not Assigned	**Date of Field Reconnaissance:**	**Not Conducted: File Review Only**
Preparer:	Mike McKay	**Report Date:**	October 12, 2016

Project Description: Modifications to I-44 / SH-66 from the I-240 junction east to Riverside Drive to include modifications to the US-75 interchange and US-75 between 47th St. to the north and 61st St. south in Tulsa, OK.

Definition of Recon Area: Eccentrically shaped recon area that is approximately three miles long following I-44 / SH-66, extending 500 feet north and 350 feet south of existing I-44 midline between I-240 and the US-75 junction. The study area expands to approximately 1600 feet north and 1400 feet south of existing midline through 3000 feet of the US-75 interchange before contracting back to approximately 400 feet north and 600 feet south of existing midline between the US-75 interchange and the Arkansas River before finally contracting to 400 feet on both sides of existing centerline crossing the river to Riverside Drive. The recon area includes approximately 1.4 miles of US-75, extending 2300 feet north and 5000 feet south of the I-44 interchange. At the I-44 interchange, the recon area extends 1600 feet west and 1300 feet east of existing US-75 midline, contracting to 200 feet west and 400 feet east of existing US-75 midline continuing north and south of the interchange.

1. File Review - the preparer completed a desktop review of the following files:

☒ State Archaeological Site Files at the Oklahoma Archeological Survey (OAS)
USGS Quadrangle(s): Sapulpa North (1956; PR 1983); Jenks (1952; PR 1982)

☒ The State Historic Preservation Office's (SHPO) National Register of Historic Places (NRHP) list and Determination of Eligibility (DOE) list

☒ Consulted with ODOT Director of Tribal Coordination

☒ Thematic or other inventory-based Oklahoma Historic Resource Reviews (listed below):

- ODOT National Bridge Inventory (NBI): http://ok.maps.arcgis.com/apps/Viewer/index.html?appid=7eafa553157b4637a9e2ef9655067f3b
- November 2012 Advisory Council on Historic Preservation (ACHP) Program Comment Concerning Post-1945 Concrete and Steel Bridges: http://www.odotculturalresources.info/post-1945-bridges.html
- March 2005 Federal Highway Administration (FHWA) Exemption Regarding Historic Preservation Review Process for Effects to the Interstate Highway System: http://www.environment.fhwa.dot.gov/histpres/highways.asp
- Oklahoma Landmarks Inventory (OLI): http://www.ocgi.okstate.edu/shpo/
- Oklahoma Route 66 Historic Resources Survey: 1926 - 1970 (2002)
- Railroads of Oklahoma: June 6, 1870 - April 1, 1978

☒ Photographic and Mapped Resources (listed below):

- General Land Office (GLO) survey maps (1898)
- USGS Hominy 30' topographic map (1912; 1915)
- USGS Claremore 30' topographic map (1914; 1916)
- General Highway Map (GHM) of Tulsa County (1941, 1964, 1969, 1979)
- U.S. Geological Survey (USGS) / U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS) aerial photographs (1943, 1958, 1964)
- Sanborn Fire Insurance maps (1894 - 1939): http://sanborn.umi.com/

- Google Earth Applications (1991 - 2016)

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2. Results of File Review - based on the file review, the preparer identified the following 45-year-old or older properties or conditions documented as existing within the reconnaissance area:

A. ***Bridge(s) in Reconnaissance Area:***

X There are bridges identified within reconnaissance area

ODOT No.	NBI No.	Const. Date	Bridge Type	NRHP Status
7278 0025NX	19471	1978	Steel Stringer	Not NRHP eligible
7278 0025SX	19479	1978	Steel Stringer	Not NRHP eligible
7278 0060NX	12814	1952	Concrete Frame	Exempt from Further Review
7278 0060SX	12815	1952	Concrete Frame	Exempt from Further Review
7278 0161X	12830	1952	Concrete Frame	Exempt from Further Review
72N3930E0640003	17865	1970	Concrete Slab	Program Comment
72N3930E0640001	27500	2002	Concrete Culvert	Not NRHP eligible
7218 1020EX	18267	1972	Steel Stringer	Not NRHP eligible
7218 1020EX	18268	1972	Steel Stringer	Not NRHP eligible
7278 0189WX	15839	1963	Concrete Slab	Exempt from Further Review
7278 0190EX	15840	1963	Concrete Slab	Exempt from Further Review
7278 0184SXR	15843	1963	Steel Stringer	Exempt from Further Review
7218 0982WX	15832	1963	Steel Stringer	Program Comment
7218 0982EX	15831	1963	Steel Stringer	Program Comment
7218 0982XR	15838	1963	Steel Stringer	Exempt from Further Review
72N3934E0640001	11970	1950	Concrete Culvert	Program Comment
7218 0903X	16564	1965	Concrete Slab	Program Comment
7278 0253NXF	15755	1963	Concrete Slab	Program Comment
7278 0253NX	20294	1982	Concrete Slab	Not NRHP eligible
7278 0253SX	12827	1952	Concrete Slab	Exempt from Further Review
7278 0253SXR	15769	1963	Concrete Slab	Exempt from Further Review
7278 0253SXF	15763	1963	Concrete Slab	Program Comment

72N3940E0640002	19674	1980	Concrete Culvert	Not NRHP eligible
7278 0269SX	20326	1982	Prestressed Concrete Beam	Not NRHP eligible
7278 0269NX	20580	1983	Prestressed Concrete Beam	Not NRHP eligible
RR Bridge	None	Unknown	Wood Trestle	Not Assessed

Comments: According to the dates provided by the NBI data, many of these bridges (NBI #18267, 18268, 19471, 19479, 19674, 20294, 20326, 20580, & 27500) are of too recent construction to be eligible for NRHP consideration and will not require documenting and review under Section 106 of the National Historic Preservation Act (NHPA).

In accordance with the November 2012 ACHP Program Comment Concerning Post-1945 Concrete and Steel Bridges, seven of these bridges (NBI #11970, 15755, 15763, 15831, 15832, 16564, & 17865) are of a design type that is considered to be exempt from documenting.

In accordance with the March 2005 ACHP Section 106 Exemption regarding effects to the Interstate Highway System, many of these bridges (NBI #12814, 12815, 12827, 12830, 15769, 15839, 15840, 15843, & 15838) do not require documenting and review.

A railway bridge crossing Mooser Creek has been incorporated into the eastern end of the recon corridor. The railway is currently active. Unfortunately, the railway bridge has no NBI data to impart information concerning its construction type or date of construction. Based upon old topographic maps and aerial imagery, this railway was constructed on its current footprint between 1901 and 1914. Aerial imagery as far back as 1943 indicates that the crossing has always used a wood trestle, however; it is unlikely that the same wood trestle would have been in operation at the current location without having been replaced or significantly rehabilitated. In this regard and since railway structures rarely exhibit historically significant characteristics or associations, this railway bridge is considered to have low potential for NRHP eligibility. Should a cultural resources survey be warranted at a later date, efforts should be made to identify the date of construction for this bridge if additional resources are available, but it is likely that this structure would be subject to documenting and review under Section 106 of the National Historic Preservation Act (NHPA) if included within a proposed cultural resources study area or project Area of Potential Effect (APE). This should not hinder project development or delay project delivery.

B. ***SHPO NRHP/DOE listed Properties in Reconnaissance Area:***

X There are no previously listed NRHP or DOE properties located within the reconnaissance area

Comments: There are no documented historic properties located within the study area based upon review of NRHP and NRHP-eligible properties or thematic surveys collected within SHPO databases.

C. ***Archaeological Sites in Reconnaissance Area as mapped at the OAS:***

X There are no sites mapped within the reconnaissance area

Comments: There are no mapped archaeological sites located within the study area based upon review of the OAS site files.

3. Based on the file review, the preparer identified the potential for the following 45-year-old or older properties or conditions to exist within the reconnaissance area:

X The preparer identified the potential presence of the following 45 year old or older properties in the reconnaissance area

Source:	☐	GLO map	☒	OAS map	☒	Aerial photograph	☒ Other
Property Type:	☐	Prehistoric site	☐	19th Century site	☒	20th century site	☐ Other

Comments: Through comparison with old reference maps and aerial imagery (see above), there may be 45-year-old or older buildings associated with numerous homesteads, homestead complexes, and commercial establishments located throughout the recon corridor. Were these buildings to be included within the proposed cultural resources study area or project APE, they will require documenting and review pursuant to Section 106 of the NHPA. This should not hinder project development or delay project delivery.

4. Based on the file review, the preparer identified the following cultural resources surveys or studies previously conducted within the reconnaissance area:

X Prior survey(s) conducted within the reconnaissance area was/were identified during the archival file review and are presented below

Comments: ODOT cultural resources survey JP 29693(04) concerning the proposed replacement of I-44 bridges NBI #12814 and 12815 was conducted by ODOT-CRP in 2015. At that time, both bridges were considered to be exempt from documenting in accordance with the March 2005 ACHP Section 106 Exemption regarding effects to the Interstate Highway System. The approximately 4400 foot long study area was eccentrically shaped extending between 180 and 285 feet on both sides of the existing I-44 / SH-66 midline. The study area adhered to existing R/W throughout. No cultural resources were recorded within the current recon corridor as part of that survey. According to NBI data and recent aerial imagery, neither bridge has yet been replaced or rehabilitated.

5. Reconnaissance or windshield survey

X The preparer did not complete a windshield review of the reconnaissance area

A. ***Properties in the Reconnaissance Area that appear to be 45 Years Old or Older:***

X The preparer observed the following 45-year-old or older properties in the reconnaissance area

#	Property Type	Description	Location within reconnaissance area
265	Building	Houses, secondary structures or commercial buildings associated with 254 locations.	Both sides of I-44 / SH-66 and US-75 throughout.

Comments: The majority of these buildings were depicted on the 1952 topographic map or noted on the 1958 USDA-SCS aerial imagery. At least four homes may have been extant as early as 1943 according to aerial imagery. At least 27 additional buildings were observed on the 1964 aerial imagery and 21 more were not seen on aerial imagery but were only depicted on the 1973 topographic map. Corroborative observations of these buildings were conducted through the use of Google Earth aerial imagery dated March of 2015 and

Google Earth Streetview imagery from June of 2016. All of these buildings are considered to have low potential for inclusion in the NRHP. Were they to be included within the proposed cultural resources study area or project APE, they will be subject to documenting and SHPO review pursuant to Section 106 of the NHPA. This should not hinder project development or delay project delivery.

B. ***Possible Archaeological Sites Observed:***

X The preparer did not observe potential archaeological sites in the reconnaissance area

Comments: Based only upon comparisons with the old reference maps and aerial imagery (see above), there may be at least ten 45-year-old or older archaeological sites residual to mid- through late-20th century suburban homesteads or commercial complexes located within the recon corridor boundaries. Although no surface artifacts or features were observed in association with these possible sites using Google Earth aerial imagery dated March of 2015 or Google Earth Streetview imagery from June of 2016, their former positions have been represented on attached recon maps for clarity of location. All of the possible sites reviewed as part of this recon are considered to have "Low Potential" for NRHP eligibility due to the limited amount of data that these site types typically contain. The level of disturbance of these sites is unknown, however; should these sites be encountered during cultural resources evaluations and found to contain archaeological features such as cisterns, wells, or foundations, deed research will be necessary to determine whether they are significant for their association with individuals important to the history of Oklahoma. Archaeological sites, especially of this nature and regardless of their NRHP eligibility, rarely hinder project development or delay project delivery.

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6. Additional Comments: The four-lane divided interstate roadway included within the recon corridor was constructed between 1952 and 1958. Although designated US-66 in 1959, it is not considered to be a part of the Historic Route 66 State Scenic Byway.

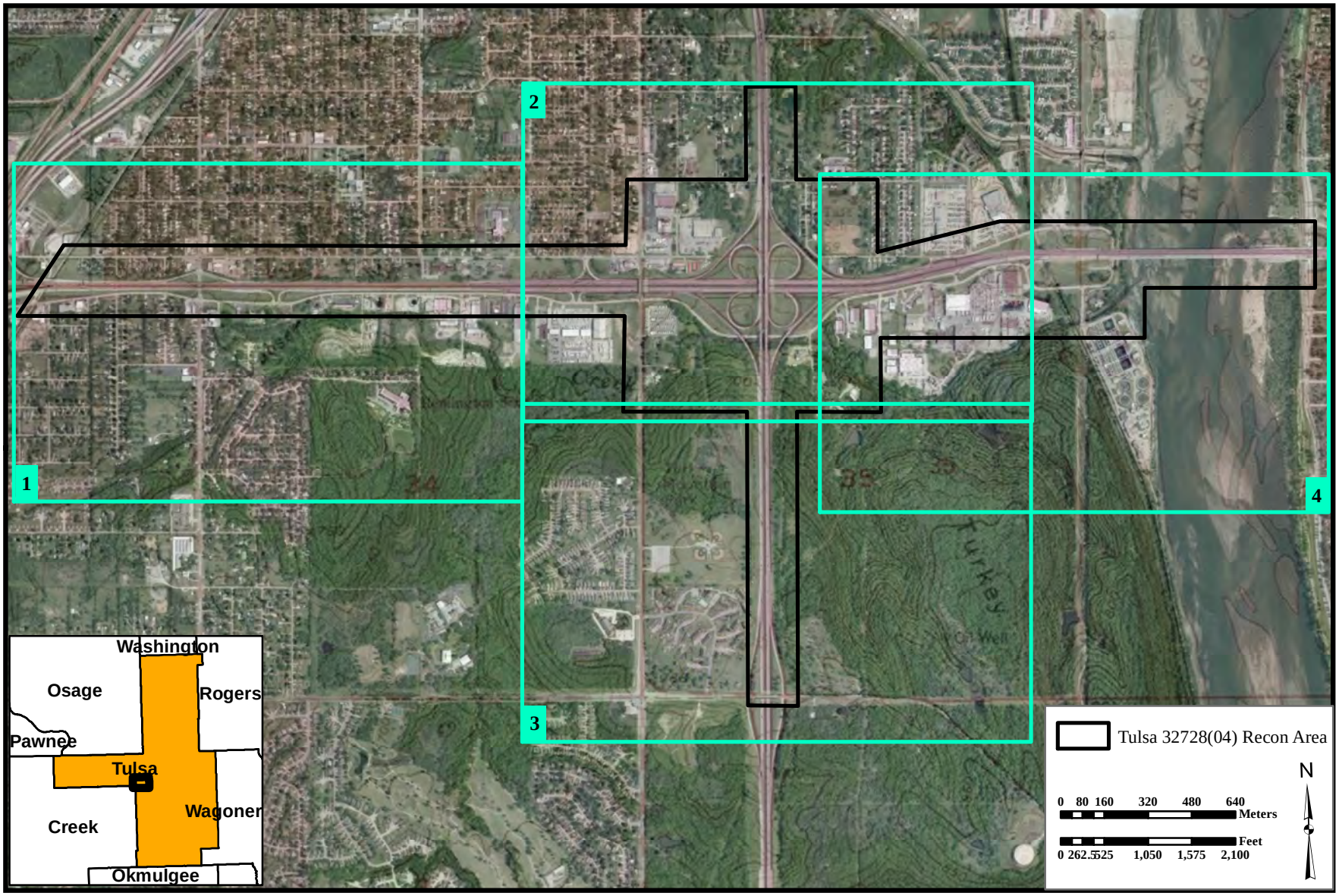


Figure 1. Overview of the general reconnaissance area for the Tulsa County project JP 32728(04); Modifications to I-44 / SH-66 and the US-75 interchange beginning at the I-244 interchange continuing east to the eastern bank of the Arkansas River in Tulsa, OK.

Geospatial Imagery Data: Sapulpa North (1956; PR 1983) & Jenks (1952; PR 1982) USGS 7.5' Quadrangle; T19N, R12E, Sections 25 - 28 & 33 - 36.

ODOT
Oklahoma Department of Transportation

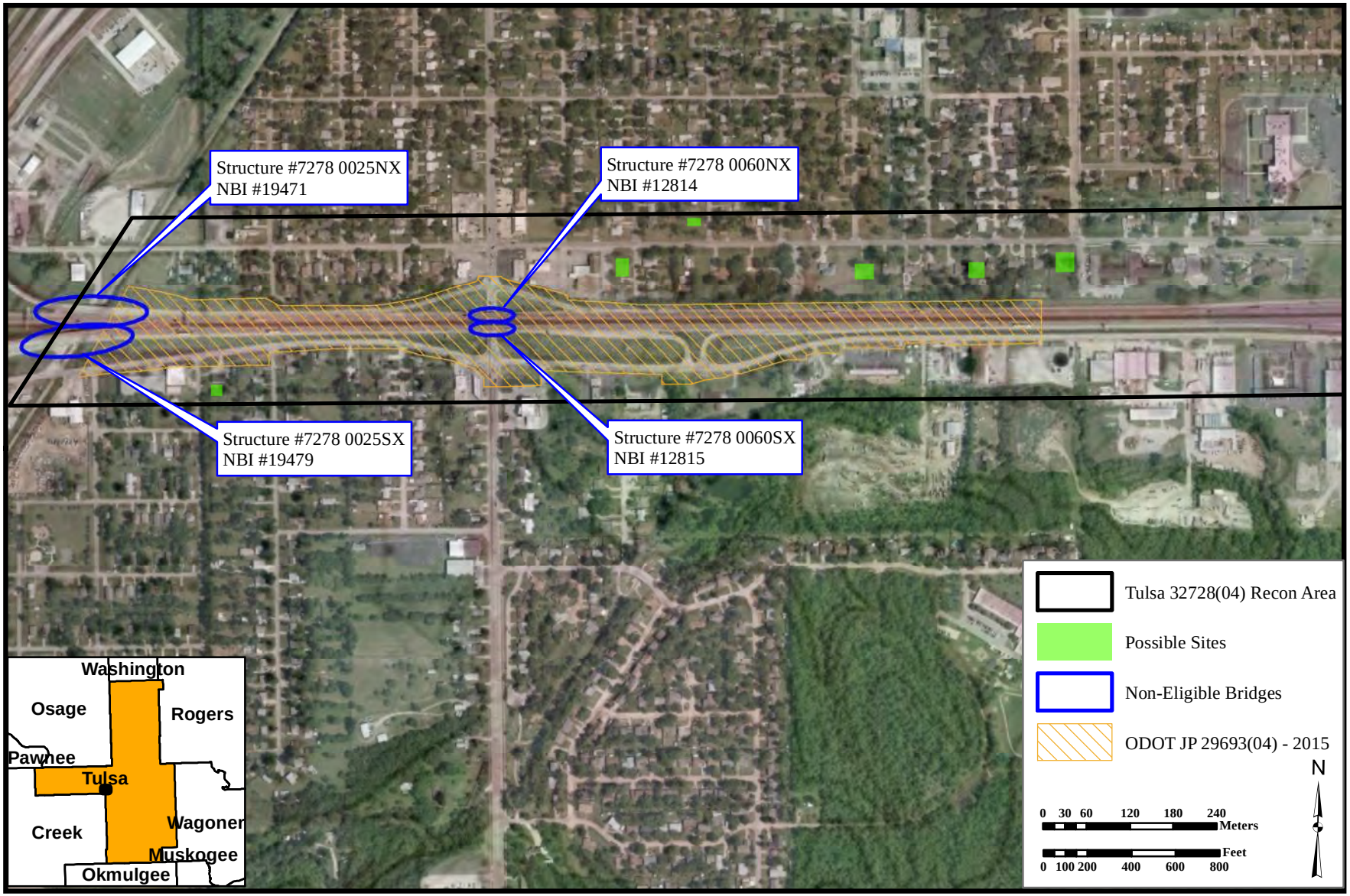


Figure 2. General reconnaissance area for the Tulsa County project JP 32728(04); Modifications to I-44 / SH-66 and the US-75 interchange beginning at the I-244 interchange continuing east to the eastern bank of the Arkansas River in Tulsa, OK.

Geospatial Imagery Data: Sapulpa North (1956; PR 1983) & Jenks (1952; PR 1982) USGS 7.5' Quadrangle; T19N, R12E, Sections 25 - 28 & 33 - 36.

Oklahoma Department of Transportation

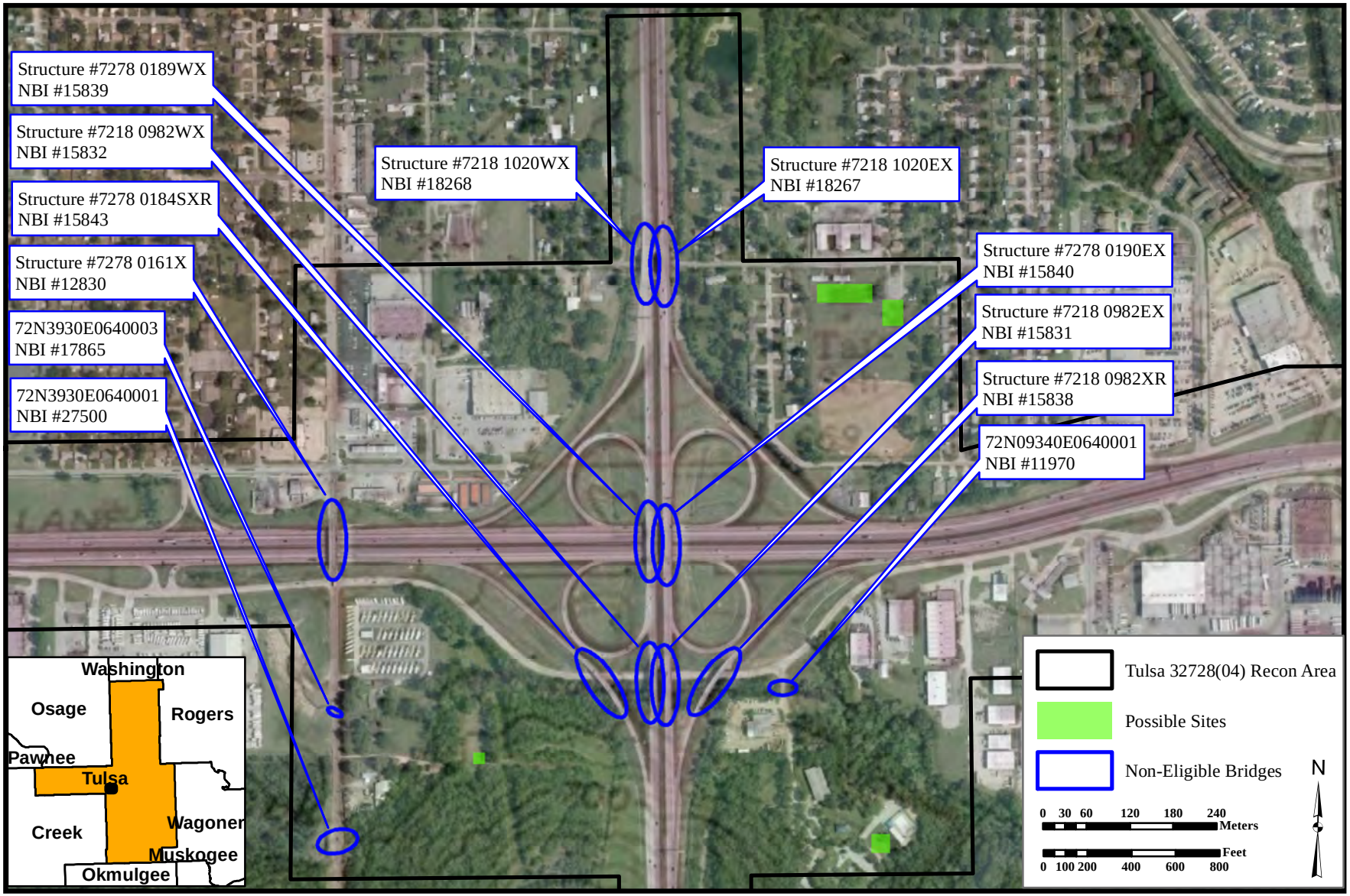


Figure 3. General reconnaissance area for the Tulsa County project JP 32728(04); Modifications to I-44 / SH-66 and the US-75 interchange beginning at the I-244 interchange continuing east to the eastern bank of the Arkansas River in Tulsa, OK.

Geospatial Imagery Data: Sapulpa North (1956; PR 1983) & Jenks (1952; PR 1982) USGS 7.5' Quadrangle; T19N, R12E, Sections 25 - 28 & 33 - 36.

Oklahoma Department of Transportation

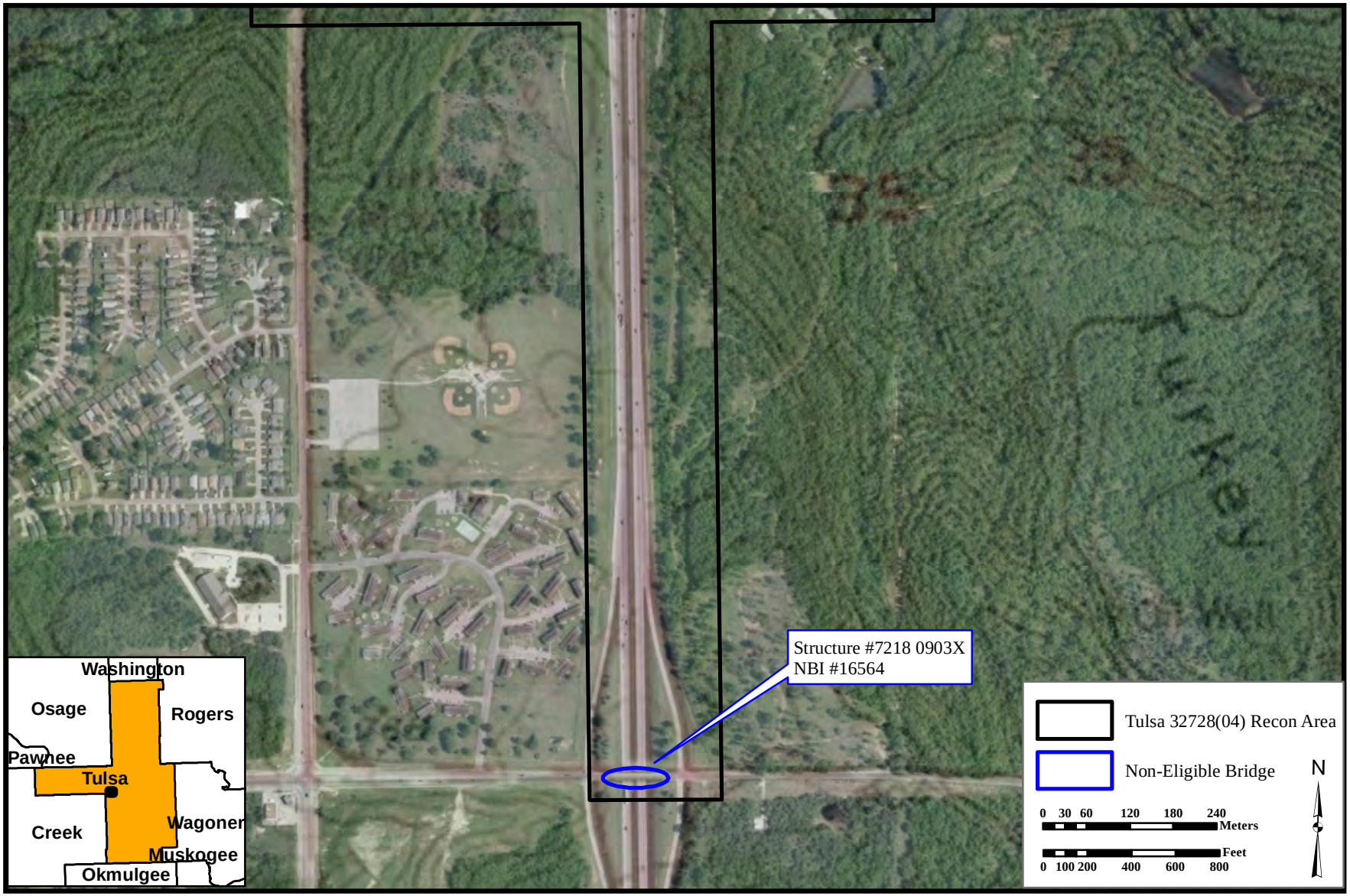


Figure 4. General reconnaissance area for the Tulsa County project JP 32728(04); Modifications to I-44 / SH-66 and the US-75 interchange beginning at the I-244 interchange continuing east to the eastern bank of the Arkansas River in Tulsa, OK.

Geospatial Imagery Data: Sapulpa North (1956; PR 1983) & Jenks (1952; PR 1982) USGS 7.5' Quadrangle; T19N, R12E, Sections 25 - 28 & 33 - 36.

Oklahoma Department of Transportation

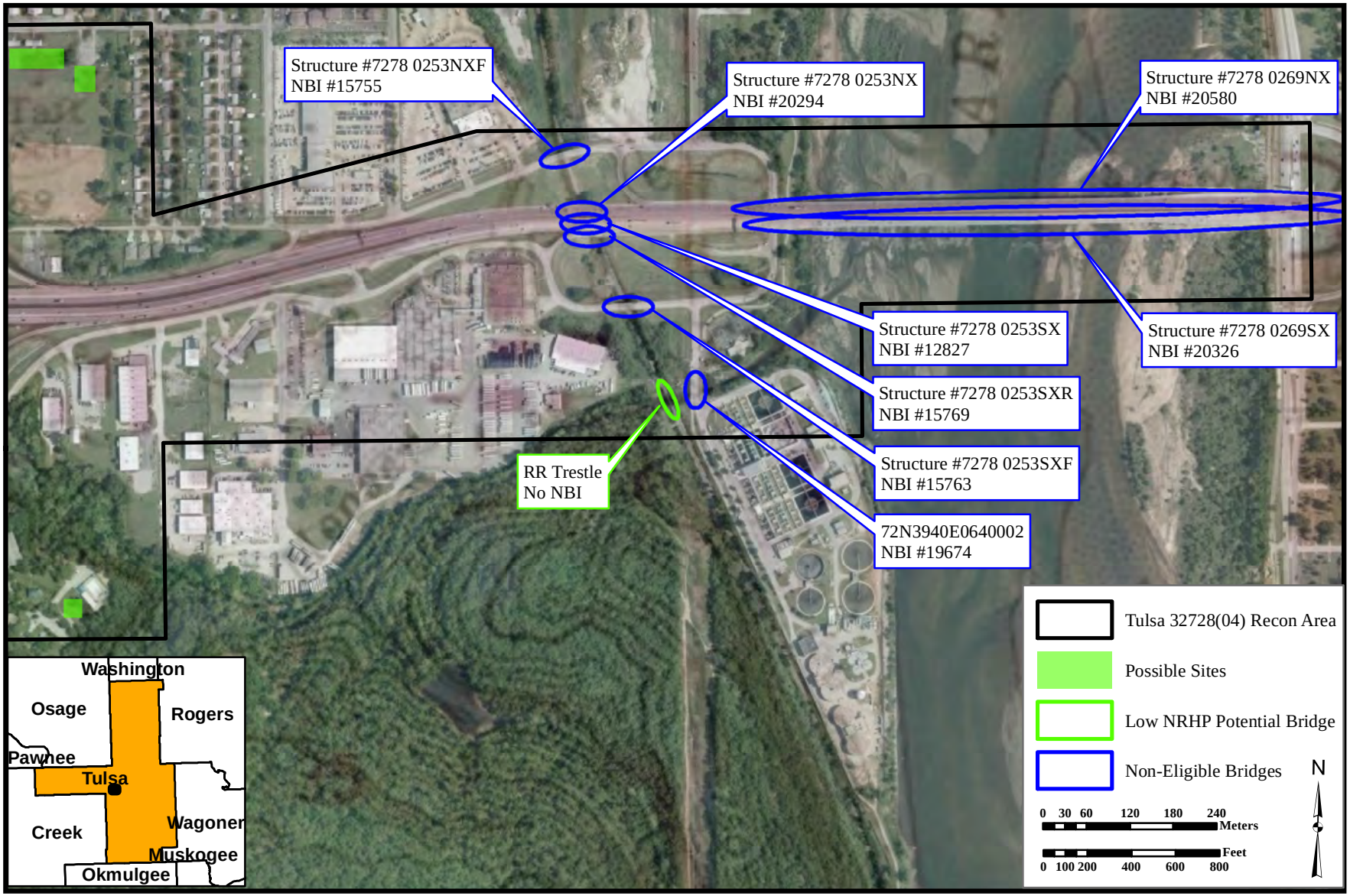


Figure 5. General reconnaissance area for the Tulsa County project JP 32728(04); Modifications to I-44 / SH-66 and the US-75 interchange beginning at the I-244 interchange continuing east to the eastern bank of the Arkansas River in Tulsa, OK.

Geospatial Imagery Data: Sapulpa North (1956; PR 1983) & Jenks (1952; PR 1982) USGS 7.5' Quadrangle; T19N, R12E, Sections 25 - 28 & 33 - 36.

ODOT Oklahoma Department of Transportation

Hazardous Waste/LUST Sites

6450 South Lewis
Suite 300
Tulsa, OK 74136

TEL 918.250.5922
FAX 918.858.0107

www.GarverUSA.com

Section 8
Hazardous Waste/LUAST Sites Summary
I-44 Corridor from I-244 Junction East to the Arkansas River
Tulsa County JP 32728(04)

8.1 Hazardous Waste Sites

A search of federal and state, local databases of hazardous waste sites was performed by GeoSearch. Hazardous waste sites, which are differentiated from sites containing petroleum storage tanks, are those that generate/store hazardous materials or are recorded in other environmental databases. A one-mile buffer around the study area was included. According to the GeoSearch report, there are 22 hazardous waste sites within or adjacent to the I-44 Corridor study area and 6 hazardous waste sites outside of, but within the ASTM search radii of, the I-44 Corridor study area (Table 1). None of these sites are considered a potential risk to the project. Some sites are listed within multiple databases. The full GeoSearch report, which supplies database acronyms, is contained within the electronic version of this report.

The hazardous materials sites displayed on the composite maps provided in Section 1 are the confirmed locations based on GeoSearch data and field reconnaissance. Several sites (GeoSearch Map ID #14, #17, #27, #28, #31, and #33) could not be located during the field visit. Thus, the precise locations of these sites are uncertain and are based on address and/or location data supplied by GeoSearch. No additional sites were identified through field reconnaissance.

Table 1: Listed Hazardous Materials Sites within the I-44 Corridor Study Area and Surrounding Sites within ASTM E1527-00 Search Radii

Distance from Study Area	Database Name	Site Name & Address	Geo-Search Map ID
Within Study Area	AIRS, AIRSAFS, FRSOK, RCRAGR06, TIERII, & VCP	Fowler Chevrolet of Tulsa / Paint Booth Oper. / Momentum Chevrolet / Riverside Chevrolet / Sonic Automotive Inc. 707 W. 51st Street Street, Tulsa, OK 74107	1

Distance from Study Area	Database Name	Site Name & Address	Geo-Search Map ID
Within Study Area	ERNSOK, FRSOK, ICIS, ICISNPDES, RCRANGR06, & TIERII	City of Tulsa-Southside Wastewater Treatment Plant / Tulsa Metropolitan Utility Authority Southside WWTP / Raven Lining Systems, Inc. 5300 S. Elwood Avenue, Tulsa, OK 74107	4
Within Study Area	FRSOK & TIERII	Green Metal Fabricators 906 W. Skelly Drive Tulsa, OK 74107	5
Within Study Area	FRSOK & TIERII	Airport Industrial Center Lagoon / Reladyne 820 W. Skelly Drive, Tulsa, OK 74107	6
Within Study Area	FRSOK, RCRAGR06, TIER II, & TRI	Pepsi Bottling Groups / Bottling Group LLC / Pepsi Beverages Company – Tulsa 510 W. Skelly Drive Tulsa, OK 74107	7
Within Study Area	FRSOK & RCRANGR06	Fuller DX Service Station 5047 S. 33rd W. Avenue, Tulsa, OK 74107	8
Within Study Area	FRSOK & RCRANGR06	Sunoco Service Station 2940 W. Skelly Drive, Tulsa, OK 74107	9
Within Study Area	CDL, FRSOK, & RCRAGR06	QuikTrip Store #9 4966 S. Union Avenue, Tulsa, OK 74107	12
Within Study Area	CDL	*<No Name Given>* 2524 51st W. Street, Tulsa, OK 74107	14*
Within Study Area	CDL	Budget Inn 2524 51st W. Street #132, Tulsa, OK 74107	15
Adjacent to Study Area	FRSOK	Winnetka Heights/Taft School 1020 W. 49th Street, Tulsa, OK 74107	16
Within Study Area	FRSOK	Claude Neon Federal W. 51st Street & Lawton Avenue, Tulsa, OK 74107	17*
Within Study Area	FRSOK & RCRAGR06	Mid Continent Thermo King, Inc. 2228 W. Skelly Drive, Tulsa, OK 74107	18

Distance from Study Area	Database Name	Site Name & Address	Geo-Search Map ID
Within Study Area	FRSOK	SMR, Southwest Molded Rubber, Inc. 920 W. Skelly Drive, Tulsa, OK 74107	19
Within Study Area	FRSOK & RCRAGR06	Bob Hurley Ford 745 W. 51st Street, Tulsa, OK 74107	20
Within Study Area	FRSOK	C & A International, LLC 5208 S. Lawton Avenue, Tulsa, OK 74107	21
Adjacent to Study Area	TRI	Greenhill Concrete Products Inc. Portable Concrete Plant 4912 S. Elwood Avenue, Tulsa, OK 74126-7412	22
Within Study Area	AIRS	American Tower Corp / I-44 & 28th West 7 Site 308167 0.30 Mile E. of Hwy 66 / S. 33rd W. Avenue, Tulsa, OK 74107	23
Within Study Area	CDL	Royal Inn 2222 W. Skelly Drive, Tulsa, OK 74107	24
Within Study Area	FRSOK & RCRAGR06	Fabrication Dynamics Inc. 2102 W. Skelly Drive, Tulsa, OK 74107	25
Within Study Area	FRSOK & RCRANGR06	American Medical Disposal, Inc. / American Med. Transp. of Oklahoma Inc. 5224 S. Lawton Avenue, Tulsa, OK 74107-9405	26
Within 1/8 Mile of Study Area	CDL	*<No Name Given>* 5163 33rd W. Avenue, Tulsa, OK 74107	27*
Adjacent to Study Area	FRSOK	T72037 2434 W. 50th Street, Tulsa, OK 74107-7716	28*
Within 1/8 Mile of Study Area	RCRAGR06, RCRANGR06, & VCP	Limco Airepair Inc. / Arrow Oil Tools Inc. 5304 & 5300 S. Lawton Avenue, Tulsa, OK 74107	29
Within 1/8 Mile of Study Area	BFPR	*<No Name Given>* Tulsa, OK 74107	31*
Within 1/8 Mile of Study Area	RCRAGR06	Septic Tank Service 5247 S. 36th W. Avenue, Tulsa, OK 74107	33*

Distance from Study Area	Database Name	Site Name & Address	Geo-Search Map ID
Within 1/2 Mile of Study Area	VCP	Conway Southern Express 4310 S. Jackson Avenue, Tulsa, OK 74107	38
Within 1/2 Mile of Study Area	RCRAT & SEMSARCH	Uponor Aldyl Co / E I Dupnt De Nemours & Co. Inc. 4501 W. 49th Street, Tulsa, OK 74107	43

***** Site location could not be field verified; site location on composite maps is based on GeoSearch information.

8.2 Storage Tanks and Oil Well Sites

A search of AST (aboveground storage tank), UST (underground storage tank), and LUST/LAST (leaking UST or leaking AST) databases was performed by GeoSearch. A 1/8 mile buffer around the study area was included. According to the GeoSearch report, there are 13 storage tank sites within or adjacent to the study area, 3 of which are LUST sites (Table 2), and 2 storage tank sites within 1/8 mile of the study area. LUST sites (GeoSearch Map IDs #1, #2, and #3) have a potential for underground contamination of the area; however, available records indicated the LUST cases have been closed and are no longer of concern to ODEQ. The full GeoSearch report is contained within the electronic version of this report.

The storage tank sites displayed on the composite maps provided in Section 1 are the confirmed locations based on GeoSearch data and field reconnaissance. Two sites (GeoSearch Map IDs #10 and #32) could not be located during the field visit. Thus, the precise location of these sites are uncertain and are based on address and/or location data supplied by GeoSearch.

Table 2: Listed AST, UST, and LUST/LAST Sites within I-44 Corridor Study Area or within 1/8 Mile of Study Area

Distance from Study Area	Tank Type	Tank Number	Site Name & Address	Geo-Search Map ID
Within Study Area	LUST (suspicion of release; closed case status) & UST	5 (removed)	Momentum Chevrolet 707 W. 51st Street, Tulsa, OK 74107	1
Within Study Area	LUST (confirmed release; closed case status) & UST	4 (2 removed & 2 currently in use)	Excel Mart 5150 S. 33rd West Avenue, Tulsa, OK 74107	2

Distance from Study Area	Tank Type	Tank Number	Site Name & Address	Geo-Search Map ID
Within Study Area	LUST (confirmed release; closed case status) & UST	3 (removed)	Former Citgo Quick Mart 5102 S. Union Avenue, Tulsa, OK 74107	3
Within Study Area	UST	1 (removed)	Green Metal Fabricators 906 W. Skelly Drive Tulsa, OK 74107	5
Within Study Area	UST	1 (removed)	United Steel Erectors, Inc. 820 W. Skelly Drive, Tulsa, OK 74107	6
Within Study Area	AST UST	2 (permanently out of use) 9 (removed)	Pepsi Bottling Groups / Bottling Group LLC / Pepsi Beverages Company – Tulsa 510 W. Skelly Drive Tulsa, OK 74107	7
Within Study Area	UST	3 (permanently out of use)	Alvin Dundee / Retail Buildings, Inc. 5048 S. 33rd W. Avenue, Tulsa, OK 74107	8
Within Study Area	UST	3 (removed)	Kirkpatrick's Texaco 2940 W. Skelly Drive, Tulsa, OK 74107	9
Within Study Area	UST	3 (removed)	Hill's APCO 4999 S. Union Avenue, Tulsa, OK	10*
Within Study Area	UST	3 (tank closed in place)	Becco Contractors, Inc. 1130 W. Skelly Drive, Tulsa, OK 74107	11
Within Study Area	UST	3 (removed)	QuikTrip Store #9 1617 W. 51st Street, Tulsa, OK 74107	12
Within Study Area	UST	4 (currently in use)	QuikTrip Store #9 4966 S. Union Avenue, Tulsa, OK 74107	12
Within Study Area	UST	2 (tank closed in place)	Thomas C. Monahan, Inc. 912 W. Skelly Drive, Tulsa, OK 74107	13
Within 1/8 Mile of Study Area	UST	1 (permanently out of use)	Dowell's Lube & Oil Patch 4806 S. Union Avenue, Tulsa, OK 74107	30
Within 1/8 Mile of Study Area	UST	1 (removed)	Degen Pipe & Supply Company 5000 Southwest Boulevard, Tulsa, OK 74107	32*

* Site location could not be field verified; site location on composite maps is based on GeoSearch information.

GeoSearch ID #12 (QuikTrip Store #9) is listed twice in Table 2 as the facility has been recently relocated. The site at 1617 W. 51st Street no longer functions as a gasoline station. The new QuikTrip facility, which is currently operational, is located northeast of the W 51st Street/S Union Avenue intersection). While Becco Contractors, Inc (GeoSearch ID #11) no longer has active USTs onsite, field reconnaissance identified what appeared to be a 1,000-gallon AST on the property.

Based on a review of the Oklahoma Corporation Commission (OCC) Petroleum Storage Tank Division files, there are no additional UST sites located within 1/8 mile of the study area beyond those that were reported by GeoSearch.

One additional storage tank site containing petroleum products was identified through field reconnaissance and is listed and described below in Table 3. This site is also displayed on the composite maps provided in Section 1.

Table 3: Additional Discovered AST Sites within I-44 Corridor Study Area

Distance from Study Area	Tank Type/Description	Site Name	Geo-Search Map ID
Within Study Area	2 ASTs appearing to be in new condition with secondary containment	Ellsworth Trucking LLC 2500 W. Skelly Drive, Tulsa, OK 74107	N/A

The OCC Oil and Gas Division well database was consulted to estimate the number of oil and gas wells within the study area. According to the OCC database, 14 well sites are located within or immediately adjacent to the study area and 13 well sites are outside of the study area but within a 1/8 mile of the study area. Multiple wells are present at some of the sites. Of the 14 well sites within the study area, 9 wells have an active status and 5 have a "drilled and plugged" status. Refer to the OCC Oil and Gas Division map included in this section.

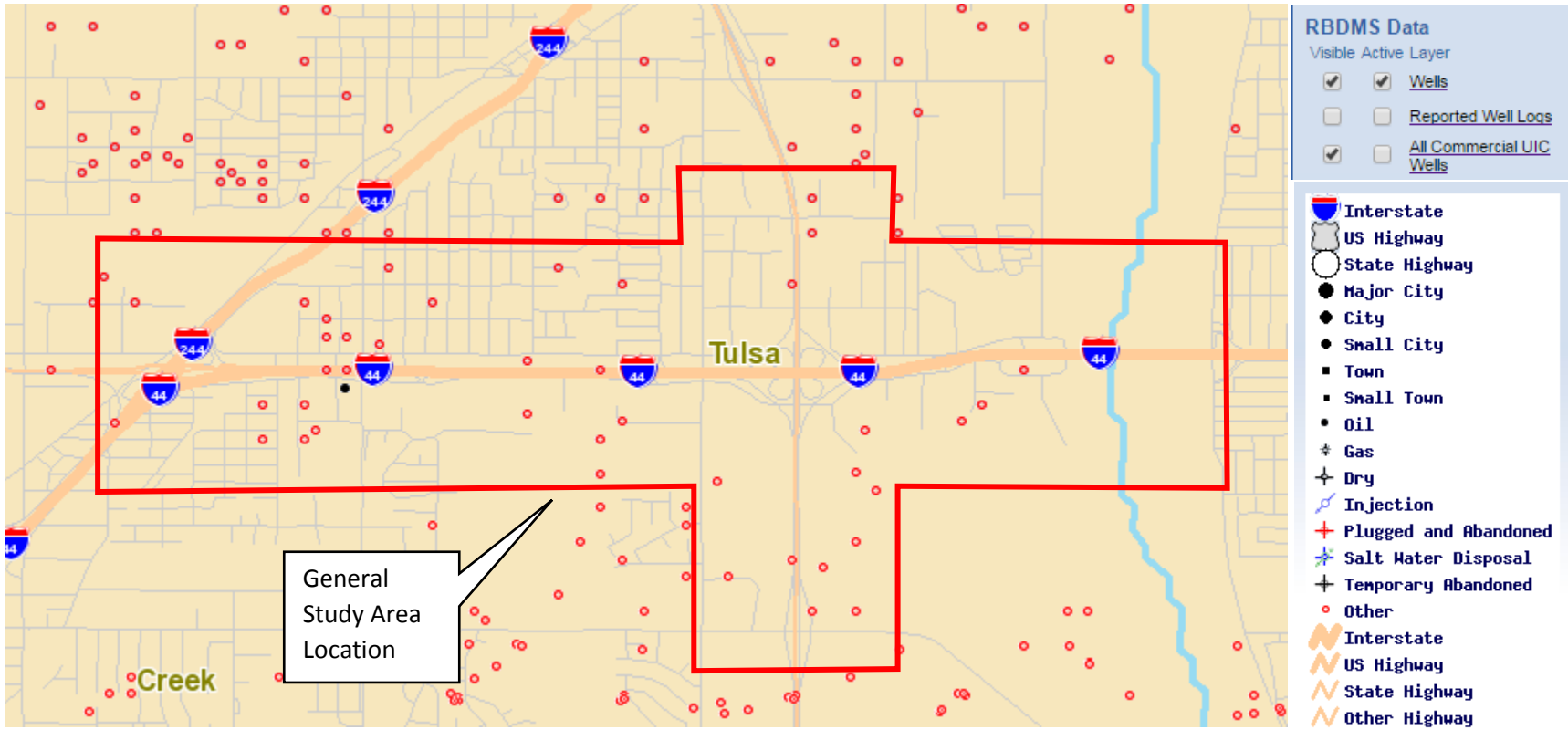
8.3 Current and Abandoned Coal Mines

According to information provided by Oklahoma Conservation Commission Abandoned Mine Land (OCC-AML) Division, the study area is within the Commercial Coal Belt of the Northeast Oklahoma Shelf and Tulsa County contains Abandoned Mine Land. However, no current or abandoned coal mines are within the study area. This information was obtained from historic and present topographical maps, communication with Oklahoma

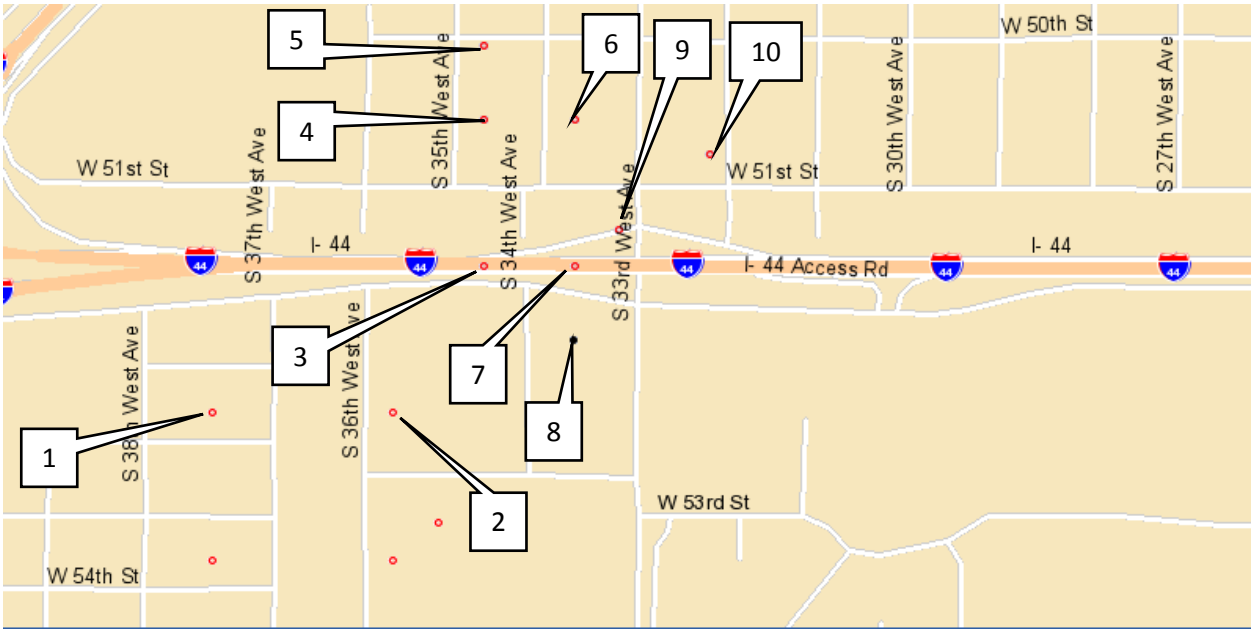
Department of Mines Geologist (Darrell Shults), and the Oklahoma Conservation Commission Abandoned Mine Land (OCC-AML) Division.

Oklahoma Corporation Commission

Oil and Gas Info



Detailed Views of 27 Wells in Study Area or Within 1/8 Mile:



1

Details

Well Information

API Well #	3514303759	Name	BEAR KEZZIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.0871079
Longitude	-96.0348382	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

2

Details

Well Information

API Well #	3514303753	Name	SCOTT MARCHIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.087108
Longitude	-96.0326051	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

3 (within study area)

Details

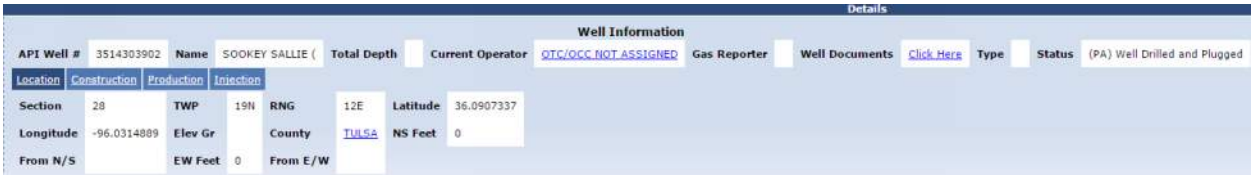
Well Information

API Well #	3514303754	Name	SCOTT MARCHIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.0889209
Longitude	-96.0314885	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

4



Details

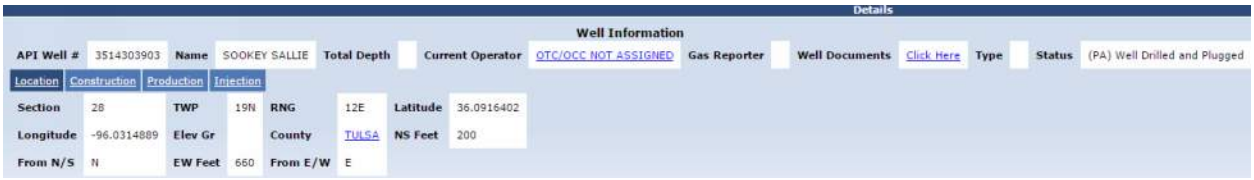
Well Information

API Well #	3514303902	Name	SOOKEY SALLIE (	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	28	TWP	19N	RNG	12E	Latitude	36.0907337
Longitude	-96.0314889	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

5



Details

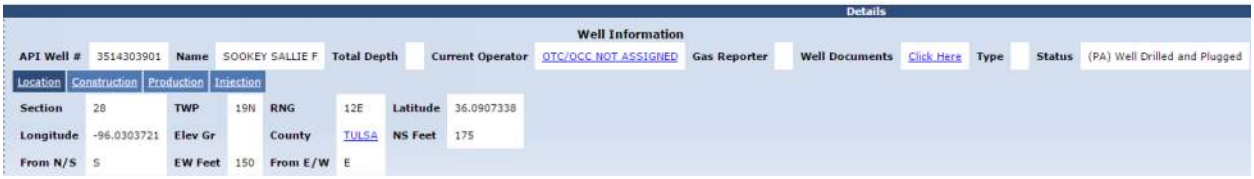
Well Information

API Well #	3514303903	Name	SOOKEY SALLIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	28	TWP	19N	RNG	12E	Latitude	36.0916402
Longitude	-96.0314889	Elev Gr		County	TULSA	NS Feet	200
From N/S	N	EW Feet	660	From E/W	E		

6



Details

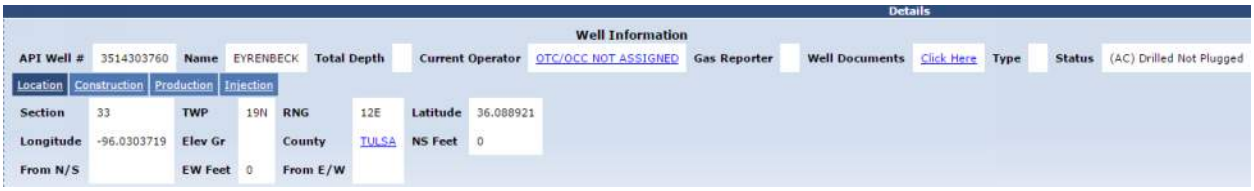
Well Information

API Well #	3514303901	Name	SOOKEY SALLIE F	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	28	TWP	19N	RNG	12E	Latitude	36.0907338
Longitude	-96.0303721	Elev Gr		County	TULSA	NS Feet	175
From N/S	S	EW Feet	150	From E/W	E		

7 (within study area)



Details

Well Information

API Well #	3514303760	Name	EYRENBECK	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.088921
Longitude	-96.0303719	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

8 (within study area)

Details

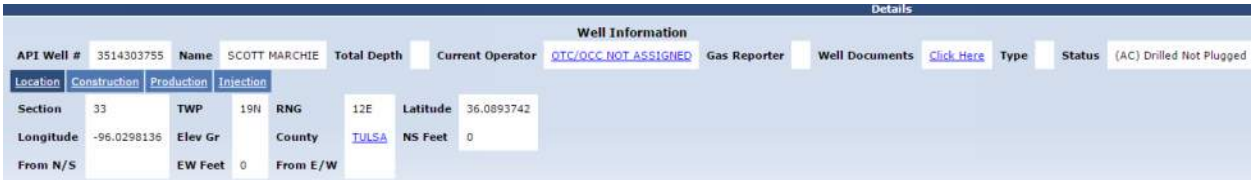
Well Information

API Well #	3514303756	Name	MARCHIE SCOTT	Total Depth		Current Operator	STATE FUND PLUGGING	Gas Reporter		Well Documents	Click Here	Type	OIL	Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.088015
Longitude	-96.03037	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

9 (within study area)



Details

Well Information

API Well #	3514303755	Name	SCOTT MARCHIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.0893742
Longitude	-96.0298136	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

10 (adjacent to study area)

Details

Well Information

API Well #	3514308388	Name	MCINTOSH	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	27	TWP	19N	RNG	12E	Latitude	36.090302
Longitude	-96.0287001	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

11

Details

Well Information

API Well #	3514303768	Name	SOVERT	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.086677
Longitude	-96.0208808	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

12 (within study area)

Details

Well Information

API Well #	3514308432	Name	HAWKINS B	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.0893964
Longitude	-96.0208808	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

13 (within study area)

Details

Well Information

API Well #	3514303765	Name	SOVERT	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.0889434
Longitude	-96.0169727	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

14

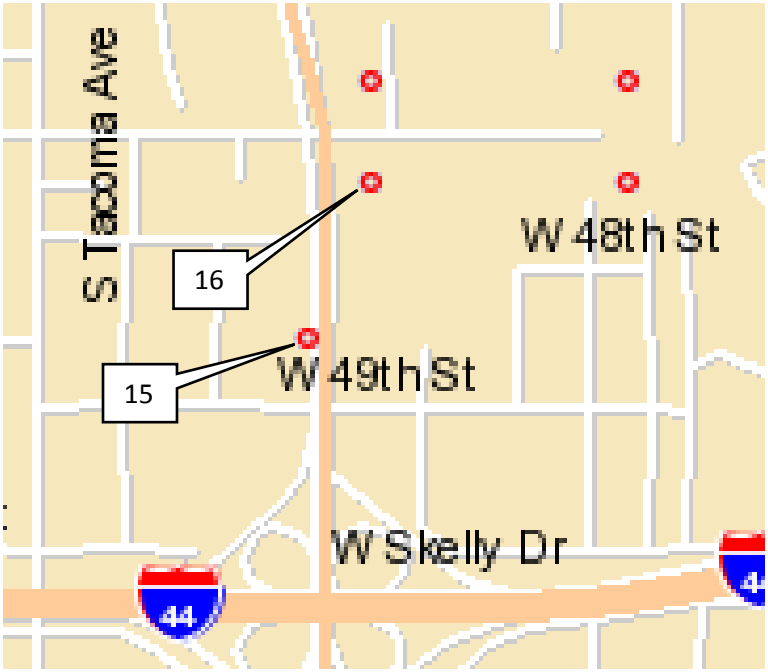
Details

Well Information

API Well #	3514308431	Name	BOHNEFELD	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.0862241
Longitude	-96.0158562	Elev Gr		County	TULSA	NS Feet	200
From N/S	S	EW Feet	200	From E/W	E		



15 (within study area)

Details

Well Information

API Well #	3514308380	Name	MCINTOSH	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	26	TWP	19N	RNG	12E	Latitude	36.093495
Longitude	-96.0069259	Elev Gr		County	TULSA	NS Feet	1120
From N/S	S	EW Feet	810	From E/W	E		

16

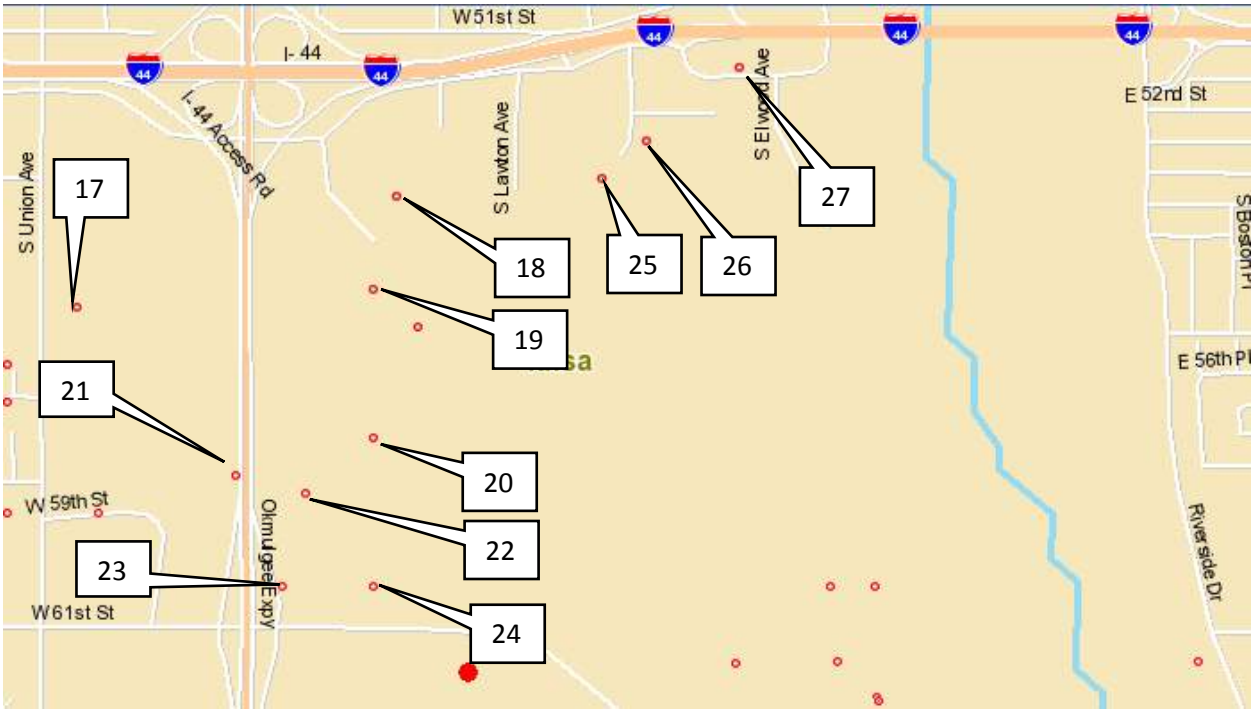
Details

Well Information

API Well #	3514303854	Name	HARDESTY SAM	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	26	TWP	19N	RNG	12E	Latitude	36.0962144
Longitude	-96.005809	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			



17

Details

Well Information

API Well #	3514308444	Name	GARRETT	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0830704
Longitude	-96.0108315	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

18 (within study area)

Details

Well Information

API Well #	3514308445	Name	GARRETT B	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0857906
Longitude	-96.0030153	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

19

Details

Well Information

API Well #	3514303789	Name	REBER	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0835244
Longitude	-96.0035736	Elev Gr		County	TULSA	NS Feet	200
From N/S	S	EW Feet	200	From E/W	E		

20

Details

Well Information

API Well #	3514303783	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0798986
Longitude	-96.0035736	Elev Gr		County	TULSA	NS Feet	1650
From N/S	S	EW Feet	2440	From E/W	W		

21 (within study area)

Details

Well Information

API Well #	3514308448	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0789919
Longitude	-96.0069234	Elev Gr		County	TULSA	NS Feet	200
From N/S	S	EW Feet	200	From E/W	E		

22 (within study area)

Details

Well Information

API Well #	3514303786	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0785388
Longitude	-96.0052485	Elev Gr		County	TULSA	NS Feet	450
From N/S	S	EW Feet	450	From E/W	W		

23 (within study area)

Details

Well Information

API Well #	3514303784	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0762726
Longitude	-96.0058068	Elev Gr		County	TULSA	NS Feet	640
From N/S	S	EW Feet	1960	From E/W	W		

24

Details

Well Information

API Well #	3514303782	Name	BISHOP ANNA	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0762728
Longitude	-96.0035736	Elev Gr		County	TULSA	NS Feet	400
From N/S	S	EW Feet	2049	From E/W	W		

25

Details

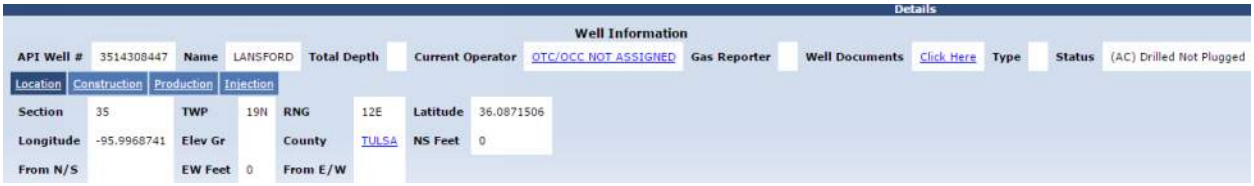
Well Information

API Well #	3514308446	Name	DREW	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0862441
Longitude	-95.9979907	Elev Gr		County	TULSA	NS Feet	1120
From N/S	S	EW Feet	250	From E/W	W		

26 (within study area)



Details

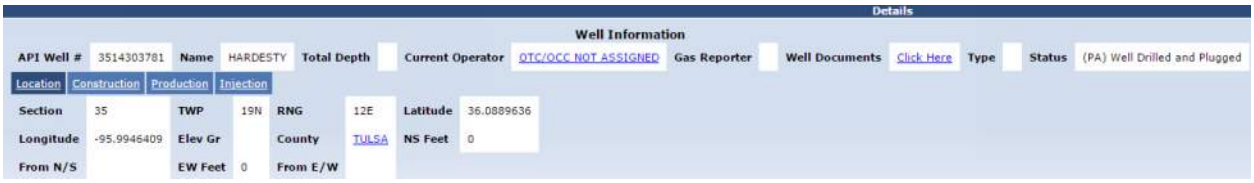
Well Information

API Well #	3514308447	Name	LANSFORD	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0871506
Longitude	-95.9968741	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

27 (within study area)



Details

Well Information

API Well #	3514303781	Name	HARDESTY	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0889636
Longitude	-95.9946409	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

GeoSearch
On time. On target. In touch.™

Radius Report

Satellite view

Target Property:

I-44 Corridor
Tulsa, Tulsa County, Oklahoma 74107

Prepared For:

Garver LLC

Order #: 75245
Job #: 161655
Project #: 16037070
Date: 09/22/2016

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Unlocatable Report . . . . . See Attachment

Zip Report . . . . . See Attachment

Disclaimer

This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal,state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR §312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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Target Property Summary

Target Property Information

I-44 Corridor
Tulsa, Oklahoma 74107

Coordinates
Area centroid (-96.008130, 36.0882369)
635 feet above sea level

USGS Quadrangle
Sapulpa North, OK
Jenks, OK

Geographic Coverage Information

County/Parish: Tulsa (OK) , Creek (OK)
ZipCode(s):
Tulsa OK: 74105, 74107, 74132, 74136

Radon
* Target property is located in Radon Zone 3.
Zone 3 areas have a predicted average indoor radon screening level less than 2 pCi/L (picocuries per liter).

Database Summary

FEDERAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
EMERGENCY RESPONSE NOTIFICATION SYSTEM	ERNSOK	1	0	TP/AP
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	EC	0	0	TP/AP
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	TP/AP
RCRA SITES WITH CONTROLS	RCRASC	0	0	TP/AP
NO LONGER REGULATED RCRA GENERATOR FACILITIES	NLRRCRAG	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR06	8	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-GENERATOR	RCRANGR06	5	0	0.1250
BROWNFIELDS MANAGEMENT SYSTEM	BF	0	0	0.5000
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.5000
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	NLRRCRAT	0	0	0.5000
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	RCRAT	1	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	SEMS	0	0	0.5000
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	SEMSARCH	1	0	0.5000
NATIONAL PRIORITIES LIST	NPL	0	0	1.0000
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	NLRRCRAC	0	0	1.0000
PROPOSED NATIONAL PRIORITIES LIST	PNPL	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	1.0000
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	RCRASUBC	0	0	1.0000

SUB-TOTAL		16	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	AIRSAFS	1	0	TP/AP
BIENNIAL REPORTING SYSTEM	BRS	0	0	TP/AP
CERCLIS LIENS	SFLIENS	0	0	TP/AP
CLANDESTINE DRUG LABORATORY LOCATIONS	CDL	10	0	TP/AP
EPA DOCKET DATA	DOCKETS	0	0	TP/AP
FACILITY REGISTRY SYSTEM	FRSOK	29	0	TP/AP

Database Summary

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR06	0	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	ICIS	4	0	TP/AP
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	1	0	TP/AP
MATERIAL LICENSING TRACKING SYSTEM	MLTS	0	0	TP/AP
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR06	0	0	TP/AP
PCB ACTIVITY DATABASE SYSTEM	PADS	0	0	TP/AP
PERMIT COMPLIANCE SYSTEM	PCSR06	0	0	TP/AP
SECTION SEVEN TRACKING SYSTEM	SSTS	0	0	TP/AP
TOXIC SUBSTANCE CONTROL ACT INVENTORY	TSCA	0	0	TP/AP
TOXICS RELEASE INVENTORY	TRI	2	0	TP/AP
HISTORICAL GAS STATIONS	HISTPST	0	0	0.2500
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	MSHA	0	0	0.2500
OPEN DUMP INVENTORY	ODI	0	0	0.5000
DEPARTMENT OF DEFENSE SITES	DOD	0	0	1.0000
FORMERLY USED DEFENSE SITES	FUDS	0	0	1.0000
RECORD OF DECISION SYSTEM	RODS	0	0	1.0000

SUB-TOTAL		47	0	

Database Summary

STATE (OK) LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
SITES WITH INSTITUTIONAL CONTROLS	IC	0	0	TP/AP
UNDERGROUND AND ABOVEGROUND STORAGE TANKS	UAST	19	0	0.2500
LEAKING UNDERGROUND AND ABOVEGROUND STORAGE TANKS	LUAST	9	0	0.5000
OCC BROWNFIELDS PUBLIC RECORD	BFPR	2	1	0.5000
OKDEQ BROWNFIELD PROPERTIES	BF	0	0	0.5000
SOLID WASTE FACILITIES	SWF	0	0	0.5000
VOLUNTARY CLEANUP PROGRAM SITES	VCP	4	0	0.5000
SUPERFUND LISTING	SF	0	0	1.0000
SUB-TOTAL		34	1	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
LISTING OF PERMITTED AIRS FACILITIES	AIRS	2	0	TP/AP
TIER II HAZARDOUS SUBSTANCE INVENTORY REPORTS	TIERII	10	0	TP/AP
REGISTERED DRY CLEANING FACILITIES	DCR	0	0	0.2500
SUB-TOTAL		12	0	

TRIBAL LISTING

Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	USTR06	0	0	0.2500
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR06	0	0	0.5000
OPEN DUMP INVENTORY ON TRIBAL LANDS	ODINDIAN	0	0	0.5000
SUB-TOTAL		0	0	

Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	1.0000
SUB-TOTAL		0	0	
TOTAL		109	1	

Database Radius Summary

FEDERAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.0200	1	NS	NS	NS	NS	NS	1
BRS	0.0200	0	NS	NS	NS	NS	NS	0
CDL	0.0200	10	NS	NS	NS	NS	NS	10
DOCKETS	0.0200	0	NS	NS	NS	NS	NS	0
EC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
ERNSOK	**0.0200**	**1**	**NS**	**NS**	**NS**	**NS**	**NS**	**1**
FRSOK	0.0200	29	NS	NS	NS	NS	NS	29
HMIRSR06	0.0200	0	NS	NS	NS	NS	NS	0
ICIS	0.0200	4	NS	NS	NS	NS	NS	4
ICISNPDES	0.0200	1	NS	NS	NS	NS	NS	1
LUCIS	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
MLTS	0.0200	0	NS	NS	NS	NS	NS	0
NPDESR06	0.0200	0	NS	NS	NS	NS	NS	0
PADS	0.0200	0	NS	NS	NS	NS	NS	0
PCSR06	0.0200	0	NS	NS	NS	NS	NS	0
RCRASC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
SFLIENS	0.0200	0	NS	NS	NS	NS	NS	0
SSTS	0.0200	0	NS	NS	NS	NS	NS	0
TRI	0.0200	2	NS	NS	NS	NS	NS	2
TSCA	0.0200	0	NS	NS	NS	NS	NS	0
NLRRCRAG	**0.1250**	**0**	**0**	**NS**	**NS**	**NS**	**NS**	**0**
RCRAGR06	**0.1250**	**6**	**2**	**NS**	**NS**	**NS**	**NS**	**8**
RCRANGR06	**0.1250**	**4**	**1**	**NS**	**NS**	**NS**	**NS**	**5**
HISTPST	0.2500	0	0	0	NS	NS	NS	0
MSHA	0.2500	0	0	0	NS	NS	NS	0
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
DNPL	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
NLRRCRAT	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODI	0.5000	0	0	0	0	NS	NS	0
RCRAT	**0.5000**	**0**	**0**	**0**	**1**	**NS**	**NS**	**1**
SEMS	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
SEMSARCH	**0.5000**	**0**	**0**	**0**	**1**	**NS**	**NS**	**1**
DOD	1.0000	0	0	0	0	0	NS	0
FUDS	1.0000	0	0	0	0	0	NS	0
NLRRCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

Database Radius Summary

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
NPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
PNPL	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRAC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RCRASUBC	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**
RODS	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		58	3	0	2	0	0	63

Database Radius Summary

STATE (OK) LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRS	0.0200	2	NS	NS	NS	NS	NS	2
IC	**0.0200**	**0**	**NS**	**NS**	**NS**	**NS**	**NS**	**0**
TIERII	0.0200	10	NS	NS	NS	NS	NS	10
DCR	0.2500	0	0	0	NS	NS	NS	0
UAST	**0.2500**	**14**	**2**	**3**	**NS**	**NS**	**NS**	**19**
BF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
BFPR	**0.5000**	**0**	**1**	**0**	**1**	**NS**	**NS**	**2**
LUAST	**0.5000**	**3**	**0**	**0**	**6**	**NS**	**NS**	**9**
SWF	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
VCP	**0.5000**	**1**	**2**	**0**	**1**	**NS**	**NS**	**4**
SF	**1.0000**	**0**	**0**	**0**	**0**	**0**	**NS**	**0**

SUB-TOTAL		30	5	3	8	0	0	46

Database Radius Summary

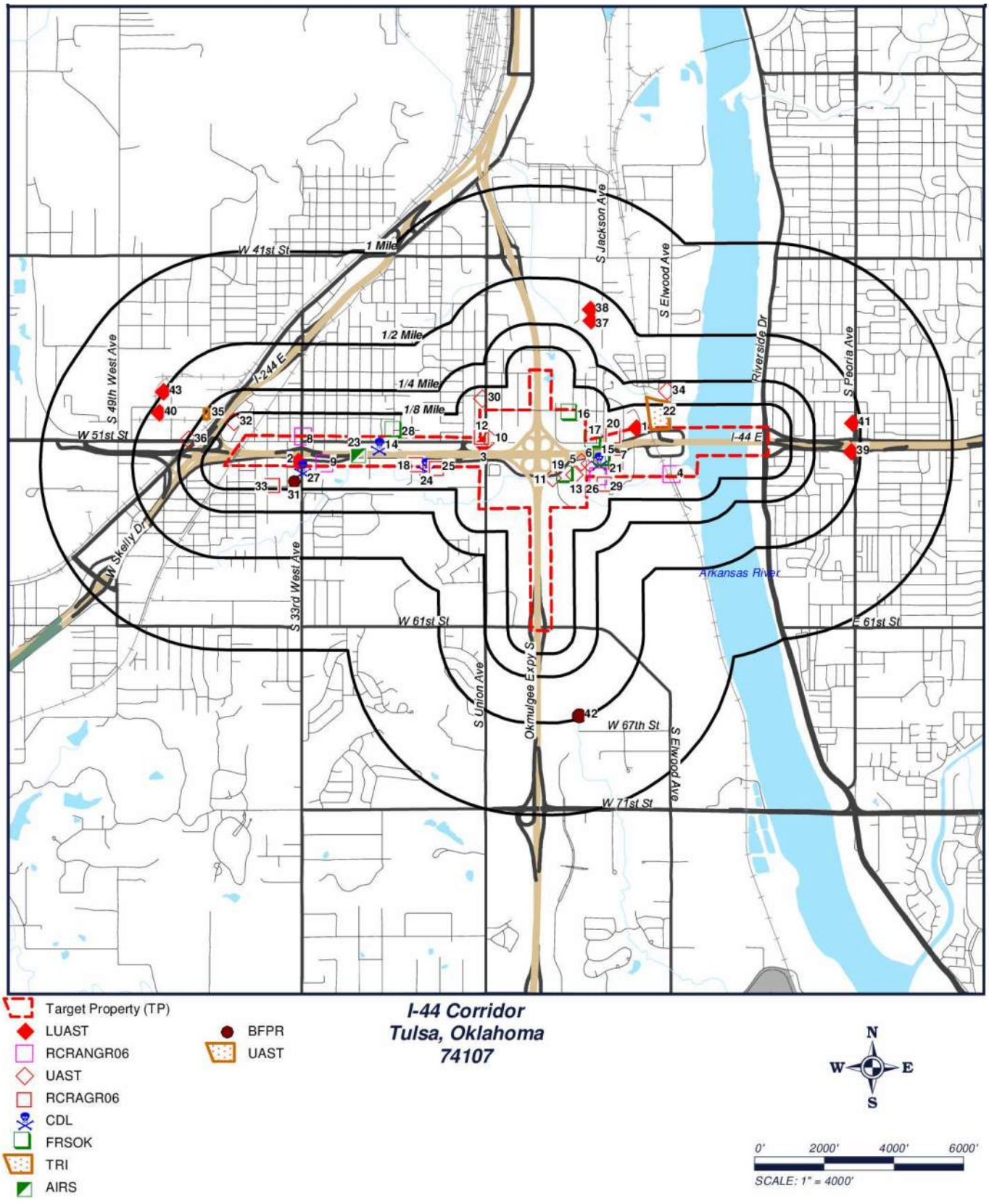
TRIBAL LISTING

*Standard environmental records are displayed in **bold**.*

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
USTR06	**0.2500**	**0**	**0**	**0**	**NS**	**NS**	**NS**	**0**
LUSTR06	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
ODINDIAN	**0.5000**	**0**	**0**	**0**	**0**	**NS**	**NS**	**0**
INDIANRES	1.0000	0	0	0	0	0	NS	0
SUB-TOTAL		0	0	0	0	0	0	0
TOTAL		88	8	3	10	0	0	109

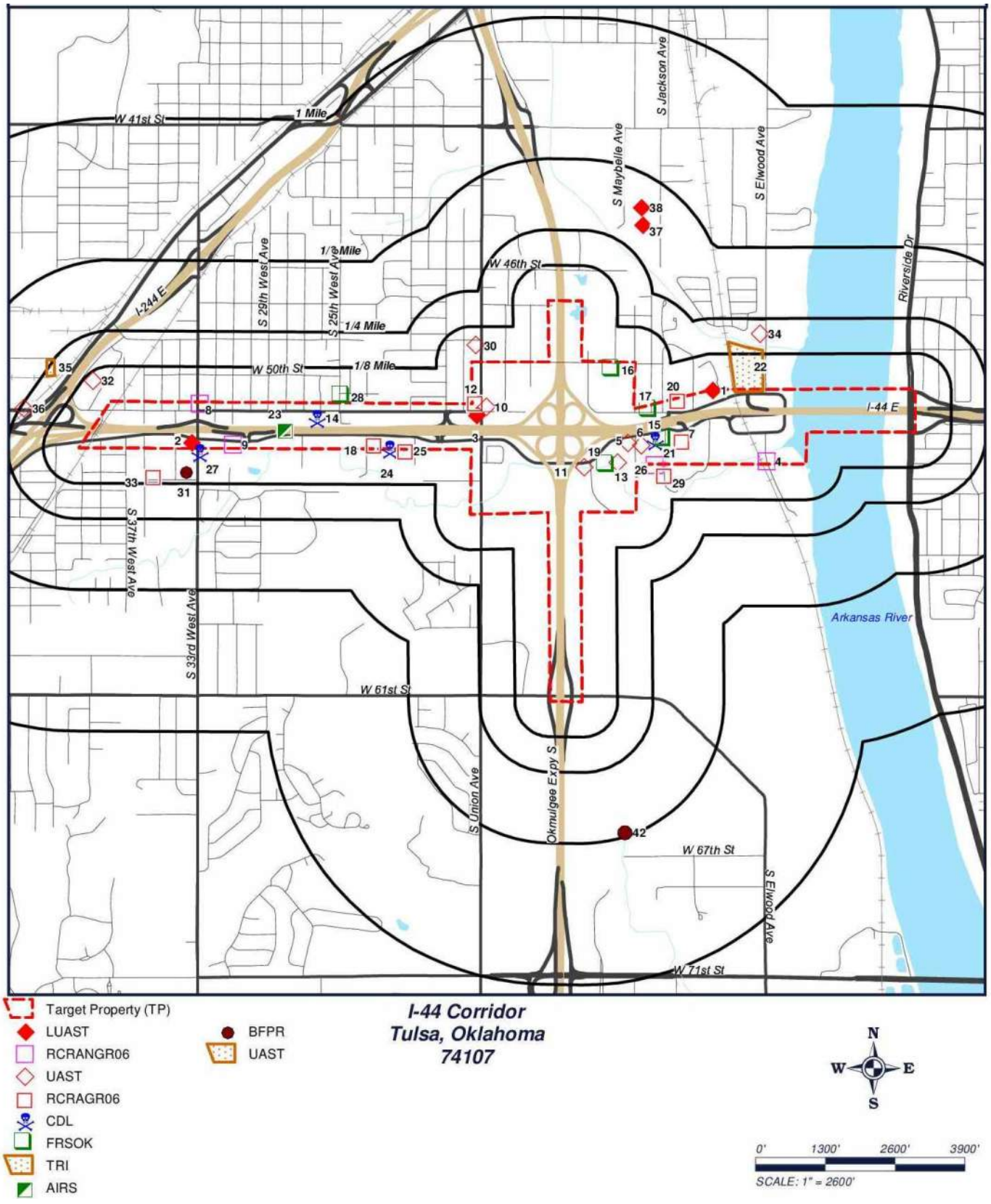
NOTES:
NS = NOT SEARCHED
TP/AP = TARGET PROPERTY/ADJACENT PROPERTY

Radius Map 1



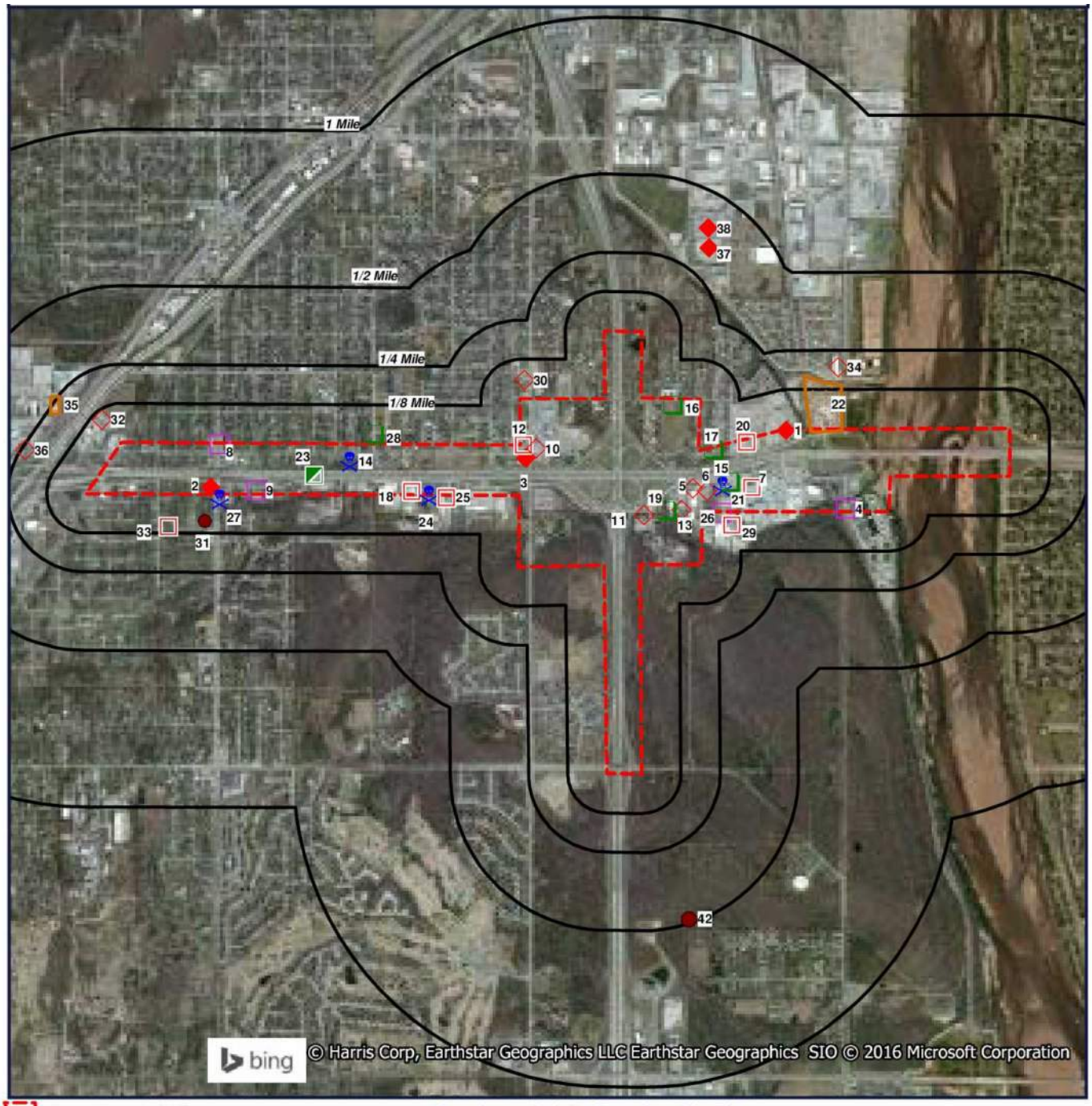
Click here to access Satellite view

Radius Map 2



Click here to access Satellite view

Ortho Map



Target Property (TP)
LUAST
RCRANGR06
UAST
RCRAGR06
CDL
FRSOK
TRI
AIRS
BFPR
UAST

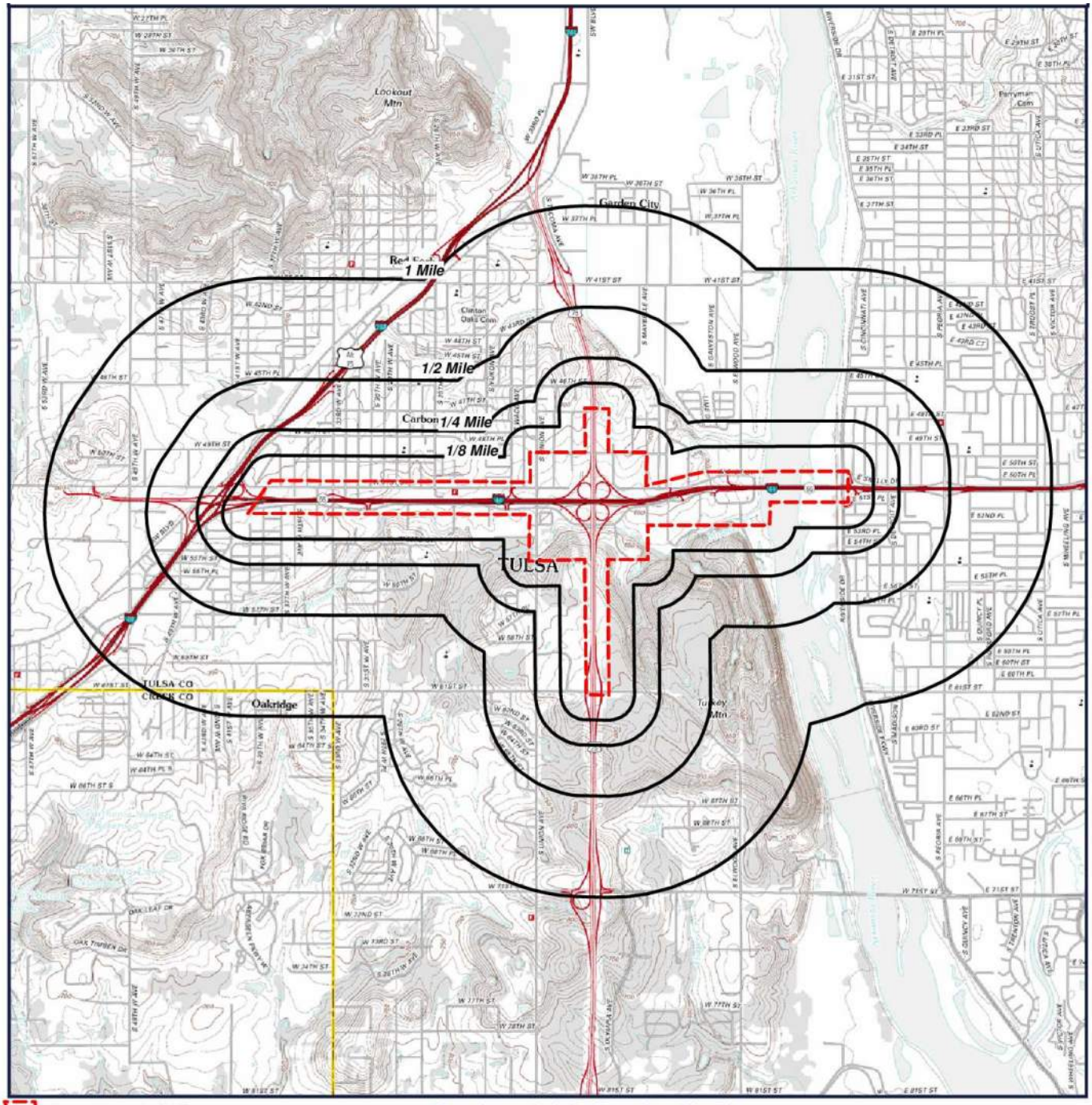
Quadrangle(s): Sapulpa North, Jenks
I-44 Corridor
Tulsa, Oklahoma
74107

N
W E
S

0' 1300' 2600' 3900'
SCALE: 1" = 2600'

Click here to access Satellite view

Topographic Map



Target Property (TP)

Quadrangle(s): Sapulpa North, Jenks
Source: USGS, 12/11/2012
I-44 Corridor
Tulsa, Oklahoma
74107

N
W E
S

0' 2000' 4000' 6000'
SCALE: 1" = 4000'

[Click here to access Satellite view]

Located Sites Summary

*NOTE: Standard environmental records are displayed in **bold**.*

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	***LUAST***	***7210839LUAST***	***Higher (660 ft.)***	***0.001 mi. E (5 ft.)***	***MOMENTUM CHEVROLET***	***707 W 51ST ST SOUTH, TULSA, OK 74107***	***23***
1	TIERII	70EAMG00251Y	Higher (660 ft.)	0.001 mi. E (5 ft.)	RIVERSIDE CHEVROLET - SONIC AUTOMOTIVE INC.	707 W. 51ST STREET, TULSA, OK 74107	24
1	***UAST***	***7210839***	***Higher (660 ft.)***	***0.001 mi. E (5 ft.)***	***MOMENTUM CHEVROLET***	***707 W 51ST ST SOUTH, TULSA, OK 74107***	***25***
1	***VCP***	***3016740714***	***Higher (660 ft.)***	***0.001 mi. E (5 ft.)***	***SONIC AUTOMOTIVE, INC. A/K/A MOMENTUM CHEVROLET***	***707 51ST, TULSA, OK***	***27***
1	AIRSAFS	1012678	Higher (660 ft.)	0.001 mi. E (5 ft.)	FOWLER CHEVROLET OF/PAINT BOOTH OPER	707 W 51ST ST, TULSA, OK 74107	28
1	FRSOK	110013396048	Higher (660 ft.)	0.001 mi. E (5 ft.)	FOWLER CHEVROLET OF TULSA / PAINT BOOTH OPER	707 W 51ST ST, TULSA, OK 74107	33
1	FRSOK	110044866552	Higher (660 ft.)	0.001 mi. E (5 ft.)	RIVERSIDE CHEVROLET	WEST 51ST STREET, TULSA, OK 74107	34
1	FRSOK	110004757415	Higher (660 ft.)	0.001 mi. E (5 ft.)	MOMENTUM CHEVROLET OF TULSA	707 W 51 ST, TULSA, OK 74101	35
1	FRSOK	110045668327	Higher (660 ft.)	0.001 mi. E (5 ft.)	MOMENTUM CHEVROLET OF TULSA	707 WEST 51ST STREET, TULSA, OK 74107	36
1	***RCRAGR06***	***OKD981898745***	***Higher (660 ft.)***	***0.001 mi. E (5 ft.)***	***MOMENTUM CHEVROLET OF TULSA***	***707 W 51 ST, TULSA, OK 74101***	***37***
1	AIRS	3124	Higher (660 ft.)	0.001 mi. E (5 ft.)	PAINT BOOTH OPER	707 W 51ST ST, TULSA, OK 74107	39
2	***UAST***	***7200596***	***Higher (700 ft.)***	***0.001 mi. SE (5 ft.)***	***EXCEL MART***	***5150 S 33RD WEST AVE, TULSA, OK 74107***	***40***
2	***LUAST***	***7200596LUAST***	***Higher (700 ft.)***	***0.001 mi. SE (5 ft.)***	***EXCEL MART***	***5150 S 33RD WEST AVE, TULSA, OK 74107***	***42***
3	***UAST***	***7203757***	***Higher (670 ft.)***	***0.001 mi. E (5 ft.)***	***FORMER CITGO QUICK MART***	***5102 S UNION, TULSA, OK 74107***	***43***
3	***LUAST***	***7203757LUAST***	***Higher (670 ft.)***	***0.001 mi. E (5 ft.)***	***FORMER CITGO QUICK MART***	***5102 S UNION, TULSA, OK 74107***	***45***
4	TIERII	24SAEM002JXH	Lower (627 ft.)	0.001 mi. E (5 ft.)	CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT	5300 S ELWOOD AV, TULSA, OK 74107	46
4	***ERNSOK***	***869898***	***Lower (627 ft.)***	***0.001 mi. E (5 ft.)***		***5300 S. ELWOOD AVE, TULSA, OK 74107***	***50***
4	FRSOK	110009433639	Lower (627 ft.)	0.001 mi. E (5 ft.)	SOUTHSIDE WASTEWATER TREATMENT PLANT	5300 S ELWOOD AVE, TULSA, OK 74107	51
4	FRSOK	110064618025	Lower (627 ft.)	0.001 mi. E (5 ft.)	TMUA SOUTH	5300 S ELWOOD AVE., TULSA, OK 74107	52

4	FRSOK	110039741232	Lower (627 ft.)	0.001 mi. E (5 ft.)	TULSA SOUTHSIDE WWT	TULSA COUNTY, TULSA, OK 74103	53
4	FRSOK	110035844664	Lower (627 ft.)	0.001 mi. E (5 ft.)	TULSA CITY OF (OK0026239) SOUTHSIDE WWTP	5300 SOUTH ELWOOD AVENUE, TULSA, OK 74107	54
4	FRSOK	110043257061	Lower (627 ft.)	0.001 mi. E (5 ft.)	TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP	5300 SOUTH ELWOOD, TULSA, OK 74107	55
4	FRSOK	110059049774	Lower (627 ft.)	0.001 mi. E (5 ft.)	RAVEN LINING SYSTEMS INC.	5300 SOUTH ELWOOD, TULSA, OK 74107	56
4	ICIS	110009433639	Lower (627 ft.)	0.001 mi. E (5 ft.)	TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP	5300 SOUTH ELWOOD, TULSA, OK 74107	57
4	ICIS	110064618025	Lower (627 ft.)	0.001 mi. E (5 ft.)	TMUA SOUTH	5300 S ELWOOD AVE., TULSA, OK 74107	58
4	ICIS	1906178064	Lower (627 ft.)	0.001 mi. E (5 ft.)	TMUA SOUTH	5300 S ELWOOD AVE., TULSA, OK 74107	59
4	ICIS	295972502	Lower (627 ft.)	0.001 mi. E (5 ft.)	TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP	5300 SOUTH ELWOOD, TULSA, OK 74107	60
4	ICISNPDES	OK0026239INPDES	Lower (627 ft.)	0.001 mi. E (5 ft.)	TMUA SOUTH	5300 S ELWOOD AVE. W2NWNWS36T19NR12EIM, TULSA, OK 74107	61
4	***RCRANGR06***	***OKD980623011***	***Lower (627 ft.)***	***0.001 mi. E (5 ft.)***	***TULSA CITY SOUTHSIDE SEWAGE TRTMNT PLT***	***5300 S ELWOOD AVE, TULSA, OK 74107***	***110***
4	TIERII	3650948201	Lower (627 ft.)	0.001 mi. E (5 ft.)	CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT	5300 S ELWOOD AVE., TULSA, OK	112
5	***UAST***	***7214107***	***Higher (650 ft.)***	***0.001 mi. E (5 ft.)***	***GREEN METAL FABRICATORS***	***906 W SKELLY DRIVE, TULSA, OK 74157***	***113***
5	FRSOK	110059534302	Higher (650 ft.)	0.001 mi. E (5 ft.)	GREEN METAL FABRICATORS	906 W. SKELLY DR., TULSA, OK 74107	114
5	TIERII	1288198702	Higher (650 ft.)	0.001 mi. E (5 ft.)	GREEN METAL FABRICATORS	906 WEST SKELLY DRIVE, TULSA, OK	115
6	***UAST***	***7203097***	***Higher (651 ft.)***	***0.001 mi. E (5 ft.)***	***UNITED STEEL ERECTORS, INC.***	***820 WEST SKELLY DRIVE, TULSA, OK 74107***	***116***
6	FRSOK	110022583809	Higher (651 ft.)	0.001 mi. E (5 ft.)	AIRPORT INDUSTRIAL CENTER LAGOON	820 W SKELLY DR, TULSA, OK 74107	117
6	TIERII	3829977342	Higher (651 ft.)	0.001 mi. E (5 ft.)	RELADYNE	820 W. SKELLY DRIVE, BLDG. F, TULSA, OK	118
7	TIERII	7QFY7H00T7T8	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BEVERAGES COMPANY - TULSA	510 W. SKELLY DRIVE, TULSA, OK 74107	119
7	TIERII	5NAH4L0020JR	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUP ~ TULSA	510 WEST SKELLY DRIVE, TULSA, OK 74107	123
7	TIERII	4Z3LG4002ZPX	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUP	510 WEST SKELLY DRIVE, TULSA, OK 74107	128
7	TIERII	40U4WB02SE7Q	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUP	510 WEST SKELLY DRIVE, TULSA, OK 74107	132

Located Sites Summary

7	***UAST***	***7205576***	***Higher (643 ft.)***	***0.001 mi. E (5 ft.)***	***PEPSI BOTTLING GROUP***	***510 W SKELLY DRIVE, TULSA, OK 74107***	***135***
7	FRSOK	110059173790	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUPS	510 W. SKELLY DR., TULSA, OK 74107	138
7	FRSOK	110058050451	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUP	510 WEST SKELLY DR, TULSA, OK 74107	139
7	FRSOK	110009435003	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUP (PBG)	510 WEST SKELLY DRIVE, TULSA, OK 74107	140
7	***RCRAGR06***	***OKR000003608***	***Higher (643 ft.)***	***0.001 mi. E (5 ft.)***	***BOTTLING GROUP LLC***	***510 W SKELLY DR, TULSA, OK 74107***	***141***
7	TRI	74107PPSCL510WE	Higher (643 ft.)	0.001 mi. E (5 ft.)	PEPSI BOTTLING GROUP (PBG)	510 W SKELLY DRIVE, TULSA, OK 74107	143
7	TIERII	1272606707	Higher (643 ft.)	0.001 mi. E (5 ft.)	BOTTLING GROUP LLC - 510 W. SKELLY DRIVE	510 W. SKELLY DRIVE, TULSA, OK	144
8	***UAST***	***7206802***	***Higher (712 ft.)***	***0.001 mi. E (5 ft.)***	***ALVIN DUNDEE***	***5048 S 33RD W AVE, TULSA, OK 74107***	***145***
8	FRSOK	110004744297	Higher (712 ft.)	0.001 mi. E (5 ft.)	FULLER DX SERVICE STA	5047 S 33RD W AVE, TULSA, OK 74107	147
8	***RCRANGR06***	***OKD000719963***	***Higher (712 ft.)***	***0.001 mi. E (5 ft.)***	***FULLER DX SERVICE STA***	***5047 S 33RD W AVE, TULSA, OK 74107***	***148***
8	***UAST***	***7212992***	***Higher (712 ft.)***	***0.001 mi. E (5 ft.)***	***RETAIL BUILDINGS, INC***	***51ST & 33RD W AVE, TULSA, OK 74107***	***150***
9	FRSOK	110004745134	Higher (698 ft.)	0.001 mi. E (5 ft.)	SUNOCO SERVICE STATION	2940 W SKELLY DR, TULSA, OK 74107	152
9	***RCRANGR06***	***OKD000821132***	***Higher (698 ft.)***	***0.001 mi. E (5 ft.)***	***SUNOCO SERVICE STATION***	***2940 W SKELLY DR, TULSA, OK 74107***	***153***
9	***UAST***	***7212470***	***Higher (698 ft.)***	***0.001 mi. E (5 ft.)***	***KIRKPATRICK'S TEXACO***	***2940 W SKELLY DRIVE, TULSA, OK 74107***	***155***
10	***UAST***	***7204339***	***Higher (671 ft.)***	***0.001 mi. E (5 ft.)***	***HILL'S APCO***	***4999 S UNION, TULSA, OK 74107***	***157***
11	***UAST***	***7212312***	***Lower (628 ft.)***	***0.001 mi. E (5 ft.)***	***BECCO CONTRACTORS, INC.***	***1130 W. SKELLY DRIVE, TULSA, OK 74107***	***159***
12	***UAST***	***7206116***	***Higher (678 ft.)***	***0.001 mi. E (5 ft.)***	***QUIKTRIP #9***	***4966 S UNION, TULSA, OK 74107***	***161***
12	CDL	2150808936	Higher (678 ft.)	0.001 mi. E (5 ft.)		4966 SOUTH UNION AVENUE, TULSA, OK 74107	163
12	CDL	1066267700	Higher (678 ft.)	0.001 mi. E (5 ft.)		4966 SOUTH UNION AVENUE , TULSA, OK 74107	164
12	FRSOK	110004766708	Higher (678 ft.)	0.001 mi. E (5 ft.)	QUIKTRIP STORE # 9	4966 S UNION, TULSA, OK 74107	165
12	***RCRAGR06***	***OKD987097458***	***Higher (678 ft.)***	***0.001 mi. E (5 ft.)***	***QUIKTRIP STORE # 9***	***4966 S UNION, TULSA, OK 74107***	***166***
12	***UAST***	***7257044***	***Higher (678 ft.)***	***0.001 mi. E (5 ft.)***	***QUIKTRIP #9***	***1617 W 51ST ST, TULSA, OK 74107***	***168***
13	***UAST***	***7206786***	***Higher (639 ft.)***	***0.001 mi. E (5 ft.)***	***THOMAS C MONAHAN, INC***	***912 WEST SKELLY DRIVE, TULSA, OK 74107***	***170***
14	CDL	172322171	Higher (670 ft.)	0.001 mi. E (5 ft.)		2524 51ST W ST, TULSA, OK	171
14	CDL	2836651676	Higher (670 ft.)	0.001 mi. E (5 ft.)		2524 51ST W ST, TULSA, OK	172
15	CDL	3352168417	Higher (656 ft.)	0.001 mi. E (5 ft.)		802 WEST SKELLY DRIVE 132, TULSA, OK	173

Located Sites Summary

16	FRSOK	110011450633	Higher (699 ft.)	0.001 mi. E (5 ft.)	WINNETKA HEIGHTS SCHOOL	1020 W 49TH, TULSA, OK 74107	174
16	FRSOK	110025681956	Higher (699 ft.)	0.001 mi. E (5 ft.)	TAFT SCHOOL	SAPULPA NORTH, OK	175
17	FRSOK	110059424010	Higher (681 ft.)	0.001 mi. E (5 ft.)	CLAUDE NEON FEDERAL	W. 51ST ST. & LAWTON AVE., TULSA, OK 74107	176
18	***RCRAGR06***	***OKD153523295***	***Higher (665 ft.)***	***0.001 mi. E (5 ft.)***	***MID CONTINENT THERMO KING INC***	***2228 W SKELLY DR, TULSA, OK 74133***	***177***
18	FRSOK	110004752982	Higher (665 ft.)	0.001 mi. E (5 ft.)	MID CONTINENT THERMO KING INC	2228 W SKELLY DR, TULSA, OK 74133	179
19	FRSOK	110059077190	Lower (631 ft.)	0.001 mi. E (5 ft.)	SMR, SOUTHWEST MOLDED RUBBER, INC.	920 W. SKELLEY DR, TULSA, OK 74170	180
20	***RCRAGR06***	***OKR000001677***	***Higher (678 ft.)***	***0.001 mi. E (5 ft.)***	***BOB HURLEY FORD***	***745 W 51ST S, TULSA, OK 74107***	***181***
20	FRSOK	110000816653	Higher (678 ft.)	0.001 mi. E (5 ft.)	BOB HURLEY FORD	745 W 51ST S, TULSA, OK 74107	183
21	FRSOK	110059544630	Higher (654 ft.)	0.001 mi. E (5 ft.)	C & A INTERNATIONAL, LLC	5208 S. LAWTON AVE., TULSA, OK 74107	184
22	TRI	7412WGRNHL4 912S	Lower (620 ft.)	0.001 mi. NW (5 ft.)	GREENHILL CONCRETE PRODUCTS INC PORTABLE CONCRETE PLANT	4912 S ELWOOD AVE, TULSA, OK 74126	185
23	AIRS	11047	Higher (675 ft.)	0.001 mi. E (5 ft.)	I 44 AND 28TH WEST 7 SITE 308167	0.30 MI E OF HW66/S 33RD W AVE, TULSA, OK 74107	186
24	CDL	4143269934	Higher (663 ft.)	0.01 mi. E (53 ft.)		2222 WEST SKELLY DRIVE , TULSA, OK 74107	187
24	CDL	1651296378	Higher (663 ft.)	0.01 mi. E (53 ft.)		2222 WEST SKELLY DRIVE, TULSA, OK 74107	188
25	***RCRAGR06***	***OKD070040258***	***Higher (665 ft.)***	***0.01 mi. E (53 ft.)***	***FABRICATION DYNAMICS INC***	***2102 W SKELLY DR, TULSA, OK 74107***	***189***
25	FRSOK	110004750207	Higher (665 ft.)	0.01 mi. E (53 ft.)	FABRICATION DYNAMICS INC	2102 W SKELLY DR, TULSA, OK 74107	191
26	FRSOK	110022584005	Higher (640 ft.)	0.01 mi. E (53 ft.)	AMERICAN MEDICAL DISPOSAL, INC.	5224 S. LAWTON, TULSA, OK 74107	192
26	***RCRANGR06***	***OKD987071917***	***Higher (640 ft.)***	***0.01 mi. E (53 ft.)***	***AMERICAN MED TRANSP OF OKLAHOMA INC***	***5224 S LAWTON, TULSA, OK 74107***	***193***
26	FRSOK	110004761133	Higher (640 ft.)	0.01 mi. E (53 ft.)	AMERICAN MED TRANSP OF OKLAHOMA INC	5224 S LAWTON, TULSA, OK 74107	195
27	CDL	3842069611	Higher (701 ft.)	0.02 mi. SE (106 ft.)		5163 33RD WEST S AVE, TULSA, OK 74107	196
27	CDL	2672425305	Higher (701 ft.)	0.02 mi. SE (106 ft.)		5163 33RD WEST S AVE, TULSA, OK	197
27	CDL	2211818878	Higher (701 ft.)	0.02 mi. SE (106 ft.)		5163 S 33RD WEST AVE, TULSA, OK 74107	198
28	FRSOK	110022588617	Higher (695 ft.)	0.02 mi. E (106 ft.)	T72037	2434 W 50TH, TULSA, OK 74107	199
29	***VCP***	***455257262***	***Equal (635 ft.)***	***0.04 mi. E (211 ft.)***	***LIMCO AIREPAIR***	***5304 LAWTON AVENUE, TULSA, OK 74107***	***200***
29	***RCRAGR06***	***OKR000000612***	***Equal (635 ft.)***	***0.04 mi. E (211 ft.)***	***LIMCO AIREPAIR, INC.***	***5304 S. LAWTON, TULSA, OK 74107***	***201***

Located Sites Summary

29	RCRANGR06	OKD007219157	Equal (635 ft.)	0.03 mi. E (158 ft.)	ARROW OIL TOOLS INC	5300 S LAWTON, TULSA, OK 74107	205
29	VCP	770492262	Equal (635 ft.)	0.04 mi. E (211 ft.)	LIMCO AIREPAIR	5304 LAWTON AVENUE, TULSA, OK	207
30	UAST	7211118	Higher (698 ft.)	0.06 mi. E (317 ft.)	DOWELL'S LUBE & OIL PATCH	4806 S UNION, TULSA, OK 74107	208
31	BFPR	18508OGDO11755	Higher (704 ft.)	0.09 mi. SE (475 ft.)		TULSA, OK 74107	209
32	UAST	7204847	Higher (698 ft.)	0.1 mi. NW (528 ft.)	DEGEN PIPE & SUPPLY COMPANY	5000 SOUTHWEST BLVD, TULSA, OK 74107	210
33	RCRAGR06	OKT410010607	Higher (720 ft.)	0.11 mi. SE (581 ft.)	SEPTIC TANK SERVICE	5247 S 36 W AVE, TULSA, OK 74107	211
34	UAST	7203590	Lower (622 ft.)	0.2 mi. E (1056 ft.)	BUY-N-SAVE	4850 S ELWOOD, TULSA, OK 74107	213
35	UAST	7203839	Higher (721 ft.)	0.22 mi. NW (1162 ft.)	PRECISION PIPING	4142 W. 49TH STR, TULSA, OK 74107	214
36	UAST	7209796	Higher (722 ft.)	0.24 mi. W (1267 ft.)	FELL OIL & GAS	4451 W. 51ST STR, TULSA, OK 74107	215
37	LUAST	7209767LUAST	Lower (630 ft.)	0.35 mi. E (1848 ft.)	ABF FREIGHT SYSTEM INC	4410 S JACKSON, TULSA, OK 74107	216
38	VCP	281382016	Lower (630 ft.)	0.4 mi. E (2112 ft.)	CONWAY SOUTHERN EXPRESS	4310 S. JACKSON, TULSA, OK	217
38	LUAST	7202416LUAST	Lower (630 ft.)	0.4 mi. E (2112 ft.)	AAA COOPER TRANSPORTATION	4310 S JACKSON, TULSA, OK 74107	218
39	LUAST	7212727LUAST	Lower (632 ft.)	0.46 mi. E (2429 ft.)	SHOP N GO 7	5108 S PEORIA, TULSA, OK 74105	219
40	LUAST	7200330LUAST	Higher (741 ft.)	0.46 mi. W (2429 ft.)	MILLER TRUCK LINES	4550 W 49TH, TULSA, OK 74107	220
41	LUAST	7207138LUAST	Lower (633 ft.)	0.47 mi. E (2482 ft.)	BROOKSIDE CITGO	4954 S PEORIA, TULSA, OK 74105	221
42	BFPR	18508OGDO11061	Higher (756 ft.)	0.49 mi. SE (2587 ft.)		TULSA, OK 74132	222
43	RCRAT	OKD007221351	Higher (732 ft.)	0.5 mi. NW (2640 ft.)	UPONOR ALDYL CO	4501 W 49TH STREET, TULSA, OK 74107	223
43	SEMSARCH	OKD007221351	Higher (732 ft.)	0.5 mi. NW (2640 ft.)	E I DUPNT DE NEMOURS & CO. INC.	4501 WEST 49TH STREET, TULSA, OK 74107	225
43	LUAST	7201563LUAST	Higher (732 ft.)	0.5 mi. NW (2640 ft.)	E.I. DU PONT DE NEMOURS & CO IN	4501 W 49TH ST, TULSA, OK 74107	226

Elevation Summary

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

Target Property Elevation: 635 ft.

*NOTE: Standard environmental records are displayed in **bold**.*

EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	***LUAST***	***660 ft.***	***MOMENTUM CHEVROLET***	***707 W 51ST ST SOUTH, TULSA, OK 74107***	***23***
1	TIERII	660 ft.	RIVERSIDE CHEVROLET - SONIC AUTOMOTIVE INC.	707 W. 51ST STREET, TULSA, OK 74107	24
1	***UAST***	***660 ft.***	***MOMENTUM CHEVROLET***	***707 W 51ST ST SOUTH, TULSA, OK 74107***	***25***
1	***VCP***	***660 ft.***	***SONIC AUTOMOTIVE, INC. A/K/A MOMENTUM CHEVROLET***	***707 51ST, TULSA, OK***	***27***
1	AIRSAFS	660 ft.	FOWLER CHEVROLET OF/PAINT BOOTH OPER	707 W 51ST ST, TULSA, OK 74107	28
1	FRSOK	660 ft.	FOWLER CHEVROLET OF TULSA / PAINT BOOTH OPER	707 W 51ST ST, TULSA, OK 74107	33
1	FRSOK	660 ft.	RIVERSIDE CHEVROLET	WEST 51ST STREET, TULSA, OK 74107	34
1	FRSOK	660 ft.	MOMENTUM CHEVROLET OF TULSA	707 W 51 ST, TULSA, OK 74101	35
1	FRSOK	660 ft.	MOMENTUM CHEVROLET OF TULSA	707 WEST 51ST STREET, TULSA, OK 74107	36
1	***RCRAGR06***	***660 ft.***	***MOMENTUM CHEVROLET OF TULSA***	***707 W 51 ST, TULSA, OK 74101***	***37***
1	AIRS	660 ft.	PAINT BOOTH OPER	707 W 51ST ST, TULSA, OK 74107	39
2	***UAST***	***700 ft.***	***EXCEL MART***	***5150 S 33RD WEST AVE, TULSA, OK 74107***	***40***
2	***LUAST***	***700 ft.***	***EXCEL MART***	***5150 S 33RD WEST AVE, TULSA, OK 74107***	***42***
3	***UAST***	***670 ft.***	***FORMER CITGO QUICK MART***	***5102 S UNION, TULSA, OK 74107***	***43***
3	***LUAST***	***670 ft.***	***FORMER CITGO QUICK MART***	***5102 S UNION, TULSA, OK 74107***	***45***
5	***UAST***	***650 ft.***	***GREEN METAL FABRICATORS***	***906 W SKELLY DRIVE, TULSA, OK 74157***	***113***
5	FRSOK	650 ft.	GREEN METAL FABRICATORS	906 W. SKELLY DR., TULSA, OK 74107	114
5	TIERII	650 ft.	GREEN METAL FABRICATORS	906 WEST SKELLY DRIVE, TULSA, OK	115
6	***UAST***	***651 ft.***	***UNITED STEEL ERECTORS, INC.***	***820 WEST SKELLY DRIVE, TULSA, OK 74107***	***116***
6	FRSOK	651 ft.	AIRPORT INDUSTRIAL CENTER LAGOON	820 W SKELLY DR, TULSA, OK 74107	117
6	TIERII	651 ft.	RELADYNE	820 W. SKELLY DRIVE, BLDG. F, TULSA, OK	118
7	TIERII	643 ft.	PEPSI BEVERAGES COMPANY - TULSA	510 W. SKELLY DRIVE, TULSA, OK 74107	119
7	TIERII	643 ft.	PEPSI BOTTLING GROUP ~ TULSA	510 WEST SKELLY DRIVE, TULSA, OK 74107	123
7	TIERII	643 ft.	PEPSI BOTTLING GROUP	510 WEST SKELLY DRIVE, TULSA, OK 74107	128
7	TIERII	643 ft.	PEPSI BOTTLING GROUP	510 WEST SKELLY DRIVE, TULSA, OK 74107	132

Elevation Summary

7	***UAST***	***643 ft.***	***PEPSI BOTTLING GROUP***	***510 W SKELLY DRIVE, TULSA, OK 74107***	***135***
7	FRSOK	643 ft.	PEPSI BOTTLING GROUPS	510 W. SKELLY DR., TULSA, OK 74107	138
7	FRSOK	643 ft.	PEPSI BOTTLING GROUP	510 WEST SKELLY DR, TULSA, OK 74107	139
7	FRSOK	643 ft.	PEPSI BOTTLING GROUP (PBG)	510 WEST SKELLY DRIVE, TULSA, OK 74107	140
7	***RCRAGR06***	***643 ft.***	***BOTTLING GROUP LLC***	***510 W SKELLY DR, TULSA, OK 74107***	***141***
7	TRI	643 ft.	PEPSI BOTTLING GROUP (PBG)	510 W SKELLY DRIVE, TULSA, OK 74107	143
7	TIERII	643 ft.	BOTTLING GROUP LLC - 510 W. SKELLY DRIVE	510 W. SKELLY DRIVE, TULSA, OK	144
8	***UAST***	***712 ft.***	***ALVIN DUNDEE***	***5048 S 33RD W AVE, TULSA, OK 74107***	***145***
8	FRSOK	712 ft.	FULLER DX SERVICE STA	5047 S 33RD W AVE, TULSA, OK 74107	147
8	***RCRANGR06***	***712 ft.***	***FULLER DX SERVICE STA***	***5047 S 33RD W AVE, TULSA, OK 74107***	***148***
8	***UAST***	***712 ft.***	***RETAIL BUILDINGS, INC***	***51ST & 33RD W AVE, TULSA, OK 74107***	***150***
9	FRSOK	698 ft.	SUNOCO SERVICE STATION	2940 W SKELLY DR, TULSA, OK 74107	152
9	***RCRANGR06***	***698 ft.***	***SUNOCO SERVICE STATION***	***2940 W SKELLY DR, TULSA, OK 74107***	***153***
9	***UAST***	***698 ft.***	***KIRKPATRICK'S TEXACO***	***2940 W SKELLY DRIVE, TULSA, OK 74107***	***155***
10	***UAST***	***671 ft.***	***HILL'S APCO***	***4999 S UNION, TULSA, OK 74107***	***157***
12	***UAST***	***678 ft.***	***QUIKTRIP #9***	***4966 S UNION, TULSA, OK 74107***	***161***
12	CDL	678 ft.		4966 SOUTH UNION AVENUE, TULSA, OK 74107	163
12	CDL	678 ft.		4966 SOUTH UNION AVENUE , TULSA, OK 74107	164
12	FRSOK	678 ft.	QUIKTRIP STORE # 9	4966 S UNION, TULSA, OK 74107	165
12	***RCRAGR06***	***678 ft.***	***QUIKTRIP STORE # 9***	***4966 S UNION, TULSA, OK 74107***	***166***
12	***UAST***	***678 ft.***	***QUIKTRIP #9***	***1617 W 51ST ST, TULSA, OK 74107***	***168***
13	***UAST***	***639 ft.***	***THOMAS C MONAHAN, INC***	***912 WEST SKELLY DRIVE, TULSA, OK 74107***	***170***
14	CDL	670 ft.		2524 51ST W ST, TULSA, OK	171
14	CDL	670 ft.		2524 51ST W ST, TULSA, OK	172
15	CDL	656 ft.		802 WEST SKELLY DRIVE 132, TULSA, OK	173
16	FRSOK	699 ft.	WINNETKA HEIGHTS SCHOOL	1020 W 49TH, TULSA, OK 74107	174
16	FRSOK	699 ft.	TAFT SCHOOL	SAPULPA NORTH, OK	175
17	FRSOK	681 ft.	CLAUDE NEON FEDERAL	W. 51ST ST. & LAWTON AVE., TULSA, OK 74107	176
18	***RCRAGR06***	***665 ft.***	***MID CONTINENT THERMO KING INC***	***2228 W SKELLY DR, TULSA, OK 74133***	***177***
18	FRSOK	665 ft.	MID CONTINENT THERMO KING INC	2228 W SKELLY DR, TULSA, OK 74133	179
20	***RCRAGR06***	***678 ft.***	***BOB HURLEY FORD***	***745 W 51ST S, TULSA, OK 74107***	***181***
20	FRSOK	678 ft.	BOB HURLEY FORD	745 W 51ST S, TULSA, OK 74107	183
21	FRSOK	654 ft.	C & A INTERNATIONAL, LLC	5208 S. LAWTON AVE., TULSA, OK 74107	184
23	AIRS	675 ft.	I 44 AND 28TH WEST 7 SITE 308167	0.30 MI E OF HW66/S 33RD W AVE, TULSA, OK 74107	186
24	CDL	663 ft.		2222 WEST SKELLY DRIVE , TULSA, OK 74107	187
24	CDL	663 ft.		2222 WEST SKELLY DRIVE, TULSA, OK 74107	188

25	***RCRAGR06***	***665 ft.***	***FABRICATION DYNAMICS INC***	***2102 W SKELLY DR, TULSA, OK 74107***	***189***
25	FRSOK	665 ft.	FABRICATION DYNAMICS INC	2102 W SKELLY DR, TULSA, OK 74107	191
26	FRSOK	640 ft.	AMERICAN MEDICAL DISPOSAL, INC.	5224 S. LAWTON, TULSA, OK 74107	192
26	***RCRANGR06***	***640 ft.***	***AMERICAN MED TRANSP OF OKLAHOMA INC***	***5224 S LAWTON, TULSA, OK 74107***	***193***
26	FRSOK	640 ft.	AMERICAN MED TRANSP OF OKLAHOMA INC	5224 S LAWTON, TULSA, OK 74107	195
27	CDL	701 ft.		5163 33RD WEST S AVE, TULSA, OK 74107	196
27	CDL	701 ft.		5163 33RD WEST S AVE, TULSA, OK	197
27	CDL	701 ft.		5163 S 33RD WEST AVE, TULSA, OK 74107	198
28	FRSOK	695 ft.	T72037	2434 W 50TH, TULSA, OK 74107	199
29	***VCP***	***635 ft.***	***LIMCO AIREPAIR***	***5304 LAWTON AVENUE, TULSA, OK 74107***	***200***
29	***RCRAGR06***	***635 ft.***	***LIMCO AIREPAIR, INC.***	***5304 S. LAWTON, TULSA, OK 74107***	***201***
29	***RCRANGR06***	***635 ft.***	***ARROW OIL TOOLS INC***	***5300 S LAWTON, TULSA, OK 74107***	***205***
29	***VCP***	***635 ft.***	***LIMCO AIREPAIR***	***5304 LAWTON AVENUE, TULSA, OK***	***207***
30	***UAST***	***698 ft.***	***DOWELL'S LUBE & OIL PATCH***	***4806 S UNION, TULSA, OK 74107***	***208***
31	***BFPR***	***704 ft.***		***TULSA, OK 74107***	***209***
32	***UAST***	***698 ft.***	***DEGEN PIPE & SUPPLY COMPANY***	***5000 SOUTHWEST BLVD, TULSA, OK 74107***	***210***
33	***RCRAGR06***	***720 ft.***	***SEPTIC TANK SERVICE***	***5247 S 36 W AVE, TULSA, OK 74107***	***211***
35	***UAST***	***721 ft.***	***PRECISION PIPING***	***4142 W. 49TH STR, TULSA, OK 74107***	***214***
36	***UAST***	***722 ft.***	***FELL OIL & GAS***	***4451 W. 51ST STR, TULSA, OK 74107***	***215***
40	***LUAST***	***741 ft.***	***MILLER TRUCK LINES***	***4550 W 49TH, TULSA, OK 74107***	***220***
42	***BFPR***	***756 ft.***		***TULSA, OK 74132***	***222***
43	***RCRAT***	***732 ft.***	***UPONOR ALDYL CO***	***4501 W 49TH STREET, TULSA, OK 74107***	***223***
43	***SEMSARCH***	***732 ft.***	***E I DUPNT DE NEMOURS & CO. INC.***	***4501 WEST 49TH STREET, TULSA, OK 74107***	***225***
43	***LUAST***	***732 ft.***	***E.I. DU PONT DE NEMOURS & CO IN***	***4501 W 49TH ST, TULSA, OK 74107***	***226***

LOWER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
4	TIERII	627 ft.	CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT	5300 S ELWOOD AV, TULSA, OK 74107	46
4	***ERNSOK***	***627 ft.***		***5300 S. ELWOOD AVE, TULSA, OK 74107***	***50***
4	FRSOK	627 ft.	SOUTHSIDE WASTEWATER TREATMENT PLANT	5300 S ELWOOD AVE, TULSA, OK 74107	51
4	FRSOK	627 ft.	TMUA SOUTH	5300 S ELWOOD AVE., TULSA, OK 74107	52
4	FRSOK	627 ft.	TULSA SOUTHSIDE WWT	TULSA COUNTY, TULSA, OK 74103	53
4	FRSOK	627 ft.	TULSA CITY OF (OK0026239) SOUTHSIDE WWTP	5300 SOUTH ELWOOD AVENUE, TULSA, OK 74107	54

Elevation Summary

4	FRSOK	627 ft.	TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP	5300 SOUTH ELWOOD, TULSA, OK 74107	55
4	FRSOK	627 ft.	RAVEN LINING SYSTEMS INC.	5300 SOUTH ELWOOD, TULSA, OK 74107	56
4	ICIS	627 ft.	TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP	5300 SOUTH ELWOOD, TULSA, OK 74107	57
4	ICIS	627 ft.	TMUA SOUTH	5300 S ELWOOD AVE., TULSA, OK 74107	58
4	ICIS	627 ft.	TMUA SOUTH	5300 S ELWOOD AVE., TULSA, OK 74107	59
4	ICIS	627 ft.	TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP	5300 SOUTH ELWOOD, TULSA, OK 74107	60
4	ICISNPDES	627 ft.	TMUA SOUTH	5300 S ELWOOD AVE. W2NWNWS36T19NR12EIM, TULSA, OK 74107	61
4	***RCRANGR06***	***627 ft.***	***TULSA CITY SOUTHSIDE SEWAGE TRTMNT PLT***	***5300 S ELWOOD AVE, TULSA, OK 74107***	***110***
4	TIERII	627 ft.	CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT	5300 S ELWOOD AVE., TULSA, OK	112
11	***UAST***	***628 ft.***	***BECCO CONTRACTORS, INC.***	***1130 W. SKELLY DRIVE, TULSA, OK 74107***	***159***
19	FRSOK	631 ft.	SMR, SOUTHWEST MOLDED RUBBER, INC.	920 W. SKELLEY DR, TULSA, OK 74170	180
22	TRI	620 ft.	GREENHILL CONCRETE PRODUCTS INC PORTABLE CONCRETE PLANT	4912 S ELWOOD AVE, TULSA, OK 74126	185
34	***UAST***	***622 ft.***	***BUY-N-SAVE***	***4850 S ELWOOD, TULSA, OK 74107***	***213***
37	***LUAST***	***630 ft.***	***ABF FREIGHT SYSTEM INC***	***4410 S JACKSON, TULSA, OK 74107***	***216***
38	***VCP***	***630 ft.***	***CONWAY SOUTHERN EXPRESS***	***4310 S. JACKSON, TULSA, OK***	***217***
38	***LUAST***	***630 ft.***	***AAA COOPER TRANSPORTATION***	***4310 S JACKSON, TULSA, OK 74107***	***218***
39	***LUAST***	***632 ft.***	***SHOP N GO 7***	***5108 S PEORIA, TULSA, OK 74105***	***219***
41	***LUAST***	***633 ft.***	***BROOKSIDE CITGO***	***4954 S PEORIA, TULSA, OK 74105***	***221***

Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7210839LUAST**
NAME: **MOMENTUM CHEVROLET**
ADDRESS: **707 W 51ST ST SOUTH**
TULSA, OK 74107

SITE DETAILS

CASE #: **SOR-3163**
CASE TYPE: **SUSPICION OF RELEASE**
RELEASE DATE: **10/8/2006**
CLOSE DATE: **12/8/2006**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

Back to Report Summary

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **70EAMG00251Y**
SITE ID: **FATR200970EAMG00251Y**
NAME: **RIVERSIDE CHEVROLET - SONIC AUTOMOTIVE INC.**
ADDRESS: **707 W. 51ST STREET**
TULSA, OK 74107
SIGNED DATE: **2/5/2010**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **RIVERSIDE CHEVROLET - SONIC AUTOMOTIVE INC.**
SITE TYPE: **GENERAL AUTOMOTIVE REPAIR**
SITE TYPE: **MOTOR VEH. DEALERS (NEW/USED)**
SITE TYPE: **EIN #**

CHEMICAL LOCATION: **EXTERIOR SOUTHWEST CORNER OF DEALERSHIP**
CHEMICAL AMOUNT: **61900 POUNDS**

CHEMICAL NAME: **UNLEADED GASOLINE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

Back to Report Summary

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7210839**
NAME: **MOMENTUM CHEVROLET**
ADDRESS: **707 W 51ST ST SOUTH**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **(SONIC) MOMENTUM CHEVROLET INC.**
ADDRESS: **707 W. 51ST STREET**
TULSA, OK 74120
OWNER PHONE: **918-446-2200**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **8/14/1986**
CLOSED DATE: **9/4/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **MOTOR OIL**
CAPACITY: **450**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **8/14/1986**
CLOSED DATE: **9/4/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **MOTOR OIL**
CAPACITY: **450**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **8/14/1986**
CLOSED DATE: **9/4/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **4**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **MOTOR OIL**
CAPACITY: **450**
TANK TYPE: **UNDERGROUND STORAGE TANK**

INSTALLED DATE: **8/14/1986**
CLOSED DATE: **9/4/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **5**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **450**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **8/14/1986**
CLOSED DATE: **9/4/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL WITH FIBERGLASS**	**SINGLE WALLED**	**FLEXIBLE PLASTIC**
2	**STEEL**	**SINGLE WALLED**	**STEEL**
3	**STEEL**	**SINGLE WALLED**	**STEEL**
4	**STEEL**	**SINGLE WALLED**	**STEEL**
5	**STEEL**	**SINGLE WALLED**	**STEEL**

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Voluntary Cleanup Program Sites (VCP)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

SITE INFORMATION

GEOSEARCH ID: **3016740714**
NAME: **SONIC AUTOMOTIVE, INC. A/K/A MOMENTUM CHEVROLET**
ADDRESS: **707 51ST**
TULSA, OK

SITE DETAILS

CONSULTANT: **NOT REPORTED**
DATE STARTED: **8/16/2012**
DATE COMPLETED: **1/2/2013**
DATE INACTIVE: **1/2/2013**
DEQ PROJECT MANAGER: **JONATHAN REID**
ISSUES: **TPH CONTAMINATION**
STATUS: **REMEDIATION COMPLETE. NO FURTHER ACTION. CASE CLOSED**
MEDIA: **NOT REPORTED**
BROWNFIELD: **NO**
INSTITUTIONAL CONTROL: **NO**
MEMORANDUM OF AGREEMENT AND CONSENT ORDER: **NOT REPORTED**
CONSENT ORDER: **NOT REPORTED**

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Aerometric Information Retrieval System / Air Facility Subsystem (AIRSAFS)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **1012678**
PLANT ID: **1012678**
NAME: **FOWLER CHEVROLET OF/PAINT BOOTH OPER**
ADDRESS: **707 W 51ST ST**
TULSA, OK 74107
CLASSIFICATION: **POTENTIAL UNCONTROLLED EMISSIONS <100 TONS/YEAR**
OPERATION STATUS: **OPERATING**
STATE COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
FACILITY TYPE: **PRIVATELY OWNED/OPERATED**
CURRENT HIGH PRIORITY VIOLATOR: **NOT REPORTED**
SIC DESCRIPTION: **ESTABLISHMENTS PRIMARILY ENGAGED IN THE REPAIR OF AUTOMOTIVE TOPS, BODIES, AND INTERIORS, OR AUTOMOTIVE PAINTING AND REFINISHING.**

ENFORCEMENT ACTIONS

DATE ACHIEVED: **07/10/2003**
DATE RECORDED: **07/21/2003**
NATIONAL ACTION TYPE: **STATE PCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **03/06/2003**
DATE RECORDED: **03/17/2003**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **VOLATILE ORGANIC COMPOUNDS**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **01/29/2003**
DATE RECORDED: **08/23/2004**
NATIONAL ACTION TYPE: **STATE NOV ISSUED**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **VOLATILE ORGANIC COMPOUNDS**
ALL POLLUTION IN VIOLATION: **NOT REPORTED**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

DATE ACHIEVED: **11/26/2002**
DATE RECORDED: **12/06/2002**
NATIONAL ACTION TYPE: **STATE CONDUCTED FCE/ON-SITE**
ALL AIR PROGRAM: **SIP SOURCE**
RESULTS OF STACK TEST AND TITLE V: **ACTION ACHIEVED**
POLLUTANT: **NOT REPORTED**
ALL POLLUTION IN VIOLATION: **VOLATILE ORGANIC COMPOUNDS**
TYPE OF VIOLATION(S): **NOT REPORTED**
PENALTY AMOUNT: **0**

AIR PROGRAM

AIR PROGRAM STATUS: **OPERATING**
EPA COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
POLLUTANT COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
POLLUTANT: **FACILITY-WIDE PERMIT REQUIREMENTS**

AIR PROGRAM STATUS: **OPERATING**
EPA COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**
POLLUTANT COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**
POLLUTANT: **VOLATILE ORGANIC COMPOUNDS**

HISTORICAL COMPLIANCE AIR PROGRAM LEVEL

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1402**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0903**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0702**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1304**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0701**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1301**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0804**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0803**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1202**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1102**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0902**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1002**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1302**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1104**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1003**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1001**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1203**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0604**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0904**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0704**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0901**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1204**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0703**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1201**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1103**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1101**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1004**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0802**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1403**

HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1401**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **1303**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS**

AIR PROGRAM: **SIP SOURCE**
COMPLIANCE DATE (YYYQ): **0801**
HISTORICAL COMPLIANCE STATUS: **IN COMPLIANCE - INSPECTION**

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Facility Registry System (FRSOK)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110013396048**

NAME: **FOWLER CHEVROLET OF TULSA / PAINT BOOTH OPER**

LOCATION ADDRESS: **707 W 51ST ST**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

FOWLER CHEVROLET OF TULSA / PAINT BOOTH OPER

FOWLER CHEVROLET OF/PAINT BOOTH OPER

PROGRAM/S LISTED FOR THIS FACILITY

AIR - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

AIRS/AFS - AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIRS FACILITY SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

7532 - TOP, BODY, AND UPHOLSTERY REPAIR SHOPS AND PAINT SHOPS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

811121 - AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE.

811121 - AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE.

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Facility Registry System (FRSOK)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110044866552**

NAME: **RIVERSIDE CHEVROLET**

LOCATION ADDRESS: **WEST 51ST STREET**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

RIVERSIDE CHEVROLET

PROGRAM/S LISTED FOR THIS FACILITY

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

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Facility Registry System (FRSOK)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004757415**

NAME: **MOMENTUM CHEVROLET OF TULSA**

LOCATION ADDRESS: **707 W 51 ST**
TULSA, OK 74101

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

RIVERSIDE CHEVROLET

MOMENTUM CHEVROLET OF TULSA

PROGRAM/S LISTED FOR THIS FACILITY

OIL - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

44111 - NEW CAR DEALERS

811111 - GENERAL AUTOMOTIVE REPAIR.

811121 - AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE.

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110045668327**

NAME: **MOMENTUM CHEVROLET OF TULSA**

LOCATION ADDRESS: **707 WEST 51ST STREET**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

MOMENTUM CHEVROLET OF TULSA

PROGRAM/S LISTED FOR THIS FACILITY

OIL - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD981898745**
NAME: **MOMENTUM CHEVROLET OF TULSA**
ADDRESS: **707 W 51 ST**
TULSA, OK 74101
CONTACT NAME: **DAVID L BAGWELL**
CONTACT ADDRESS: **707 W 51 ST**
TULSA OK 74101
CONTACT PHONE: **918-446-2200**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/28/2012**

OWNER TYPE: **PRIVATE**
OWNER NAME: **HUDIBERG TRUST PARTNERSHIP**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **FOWLER OF TULSA LLC**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
CHARLES CLARK	**SEC**	**08/27/2012**
GEORGE MAULSBY	**O/O**	**02/14/2003**

INDUSTRY CLASSIFICATION (NAICS)

44111 - NEW CAR DEALERS
44112 - USED CAR DEALERS
811111 - GENERAL AUTOMOTIVE REPAIR
811121 - AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **08/28/2012**
NAME: **MOMENTUM CHEVROLET OF TULSA**
DATE RECEIVED BY AGENCY: **02/18/2003**
NAME: **RIVERSIDE CHEVROLET**
DATE RECEIVED BY AGENCY: **03/13/2000**
NAME: **RIVERSIDE CHEVROLET**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **08/29/2012**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

03/09/2011 **CEI COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS

03/25/2011 **262.A GENERATORS - GENERAL**

ENFORCEMENTS

03/25/2011 **122 NOT REPORTED**

HAZARDOUS WASTE

D001	**IGNITABLE WASTE**
D005	**BARIUM**
D006	**CADMIUM**
D007	**CHROMIUM**
D008	**LEAD**
D035	**METHYL ETHYL KETONE**
F001	**THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE,TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE ANDCHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
F003	**THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**
F005	**THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

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Listing of Permitted AIRS Facilities (AIRS)

MAP ID# 1

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 660 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **3124**
FACILITY ID: **3124**
AIR ID: **143-00220**
COMPANY: **DAVID STANLEY OF TULSA LLC**
NAME: **PAINT BOOTH OPER**
ADDRESS: **707 W 51ST ST**
TULSA, OK 74107

FACILITY DETAILS

PERMIT NUMBER:	DESCRIPTION:	DATE ISSUED:	LAST STATUS:
98-009-O M-1	**NOT REPORTED**	**9/17/2003**	**PERMIT ISSUED**

CONTACT: **BOYDSTON WES**
FACILITY PHONE: **(405) 396-8012**

Back to Report Summary

MAP ID# 2

Distance from Property: 0.001 mi. (5 ft.) SE
Elevation: 700 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7200596**
NAME: **EXCEL MART**
ADDRESS: **5150 S 33RD WEST AVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **SAJID SALIMI INC**
ADDRESS: **5150 S 33RD W AVE**
TULSA, OK 74107
OWNER PHONE: **918-447-8009**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **CURRENTLY IN USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **6/17/1992**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/19/1974**
CLOSED DATE: **4/29/1992**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **CURRENTLY IN USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **6/17/1992**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK ID: **4**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**

Underground and Aboveground Storage Tanks (UAST)

INSTALLED DATE: **2/19/1974**

CLOSED DATE: **4/29/1992**

CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL WITH FIBERGLASS**	**SINGLE WALLED**	**FIBERGLASS**
2	**STEEL**	**SINGLE WALLED**	**STEEL**
3	**STEEL WITH FIBERGLASS**	**SINGLE WALLED**	**FIBERGLASS**
4	**STEEL**	**SINGLE WALLED**	**STEEL**

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 2

Distance from Property: 0.001 mi. (5 ft.) SE
Elevation: 700 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7200596LUAST**
NAME: **EXCEL MART**
ADDRESS: **5150 S 33RD WEST AVE**
TULSA, OK 74107

SITE DETAILS

CASE #: **064-0499**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **4/30/1992**
CLOSE DATE: **5/13/1992**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

Back to Report Summary

MAP ID# 3

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 670 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7203757**
NAME: **FORMER CITGO QUICK MART**
ADDRESS: **5102 S UNION**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **B. & M. OIL COMPANY, INC.**
ADDRESS: **PO BOX 9309**
TULSA, NOT REPORTED 74157
OWNER PHONE: **918-445-0728**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/14/1980**
CLOSED DATE: **1/26/2006**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/14/1966**
CLOSED DATE: **1/26/2006**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **10000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/14/1960**
CLOSED DATE: **1/26/2006**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**FIBERGLASS**
2	**STEEL**	**SINGLE WALLED**	**FIBERGLASS**
3	**STEEL**	**SINGLE WALLED**	**FIBERGLASS**

Underground and Aboveground Storage Tanks (UAST)

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 3

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 670 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7203757LUAST**
NAME: **FORMER CITGO QUICK MART**
ADDRESS: **5102 S UNION**
TULSA, OK 74107

SITE DETAILS

CASE #: **064-3062**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **2/10/2006**
CLOSE DATE: **8/5/2008**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

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MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

SITE INFORMATION

UNIQUE ID: **24SAEM002JXH**
SITE ID: **FATR201024SAEM002JXH**
NAME: **CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT**
ADDRESS: **5300 S ELWOOD AV**
TULSA, OK 74107
SIGNED DATE: **02/23/2011**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT**
SITE TYPE: **SEWERAGE SYSTEMS**
SITE TYPE: **SEWAGE TREATMENT FACILITIES**

CHEMICAL LOCATION: **GAS STORAGE SPHERE**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CHLORINE BUILDING**
CHEMICAL AMOUNT: **64000 POUNDS**

CHEMICAL LOCATION: **INTERMEDIATE PUMP STATION**
CHEMICAL AMOUNT: **56000 POUNDS**

CHEMICAL LOCATION: **SULFUR DIOXIDE BUILDING**
CHEMICAL AMOUNT: **64000 POUNDS**

CHEMICAL LOCATION: **SOUTH OF SULFUR DIOXIDE BUILDING**
CHEMICAL AMOUNT: **56000 POUNDS**

CHEMICAL LOCATION: **CHLORINE BUILDING**
CHEMICAL AMOUNT: **95000 POUNDS**

CHEMICAL LOCATION: **COGEN BUILDING**
CHEMICAL AMOUNT: **32200 POUNDS**

CHEMICAL LOCATION: **RDT BUILDING**

CHEMICAL AMOUNT: **28000 POUNDS**

CHEMICAL NAME: **DIGESTER GAS, 65% METHANE AND 35% CARBON DIOXIDE**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **YES**

GAS: **YES**

LIQUID: **NOT REPORTED**

SOLID: **NOT REPORTED**

PURE: **NOT REPORTED**

MIXTURE: **YES**

CHEMICAL NAME: **CHLORINE**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **YES**

GAS: **YES**

LIQUID: **YES**

SOLID: **NOT REPORTED**

PURE: **YES**

MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **SULFUR DIOXIDE**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **NOT REPORTED**

GAS: **YES**

LIQUID: **YES**

SOLID: **NOT REPORTED**

PURE: **YES**

MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **SODIUM HYDROXIDE**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **NOT REPORTED**

GAS: **NOT REPORTED**

LIQUID: **YES**

SOLID: **YES**

PURE: **NOT REPORTED**

MIXTURE: **YES**

CHEMICAL NAME: **CLARIFLOC CE-1224 POLYMER - CATIONIC POLYACRYLAMIDE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **NOT REPORTED**
SOLID: **YES**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **CLARIFLOC CE-1225 POLYMER**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

MIXTURE CHEMICAL: **ETHANAMINIUM, N,N,N TRIMETHYL 2((1-OXO-2-PROPENYL)**

MIXTURE CHEMICAL: **PETROLEUM DISTILLATES, HYDROTREATED LIGHT**

MIXTURE CHEMICAL: **ALCOHOLS, C12-18, ETHOXYLATED**

MIXTURE CHEMICAL: **ALCOHOLS, C12-16, ETHOXYLATED**

MIXTURE CHEMICAL: **COPOLYMER OF ACRYLAMIDE WITH CATIONIC ACRYLIC ACID**

MIXTURE CHEMICAL: **CITRIC ACID**

MIXTURE CHEMICAL: **COPOLYMER WITH ACRYLIMIDE**

MIXTURE CHEMICAL: **SOLVENT OIL**

MIXTURE CHEMICAL: **EMULSIFIED IN WATER**

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Emergency Response Notification System (ERNSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

INCIDENT INFORMATION

GSID#: **869898**
NRC ID#: **869898**
INCIDENT LOCATION: **NOT REPORTED**
INCIDENT ADDRESS: **5300 S. ELWOOD AVE**
TULSA, OK 74107
INCIDENT COUNTY: **TULSA**

INCIDENT DETAILS

INCIDENT DATE: **5/2/2008 9:00:00 AM**
INCIDENT CAUSE: **UNKNOWN**
INCIDENT TYPE: **STORAGE TANK**
INCIDENT OCCURED/DISCOVERED: **DISCOVERED**
INCIDENT DESCRIPTION: **CALLER REPORTED THAT A PIPE CONNECTED TO A STORAGE TANK BROKE DUE TO UNKNOWN CAUSES AND RELEASED 2000 GALLONS OF SODIUM HYDROXIDE INTO THE GROUND.**

RESPONSIBLE PARTY

RESPONSIBLE COMPANY: **CITY OF TULSA**
ADDRESS: **ADDRESS NOT REPORTED**
TULSA OK 74107
RESPONSIBLE COMPANY ORGANIZATION TYPE: **LOCAL GOVERNMENT**

MATERIALS INVOLVED

CHRIS CODE: **SHD**
MATERIAL REACHED WATER: **YES**
WATER AMOUNT: **UNKNOWN AMOUNT / NOT REPORTED**
MATERIAL RELEASED/AMOUNT: **SODIUM HYDROXIDE / 2000 GALLON(S)**

OTHER MATERIALS INVOLVED

- NO OTHER MATERIALS INVOLVED -

REMEDIAL ACTION

REMEDIAL ACTION: **PH SAMPLES OF THE SOIL AROUND THE AREA WERE TAKEN, VACUUMED UP THE FREE LIQUID, CLEAN UP IS STILL UNDERWAY**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110009433639**

NAME: **SOUTHSIDE WASTEWATER TREATMENT PLANT**

LOCATION ADDRESS: **5300 S ELWOOD AVE**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TULSA CITY OF (OK0026239) SOUTHSIDE WWTP
SOUTHSIDE WASTEWATER TREATMENT PLANT
TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP
TULSA CITY SOUTHSIDE SEWAGE TRTMNT PLT
TMUA SOUTH

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM
RMP - RISK MANAGEMENT PLAN
ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4952 - SEWERAGE SYSTEMS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

22132 - SEWAGE TREATMENT FACILITIES
22132 - SEWAGE TREATMENT FACILITIES

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Facility Registry System (FRSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110064618025**

NAME: **TMUA SOUTH**

LOCATION ADDRESS: **5300 S ELWOOD AVE.**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TMUA SOUTH

PROGRAM/S LISTED FOR THIS FACILITY

NPDES - NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4952 - SEWERAGE SYSTEMS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110039741232**

NAME: **TULSA SOUTHSIDE WWT**

LOCATION ADDRESS: **TULSA COUNTY**
TULSA, OK 74103

COUNTY: **TULSA**

EPA REGION: **6**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TULSA SOUTHSIDE WWT

PROGRAM/S LISTED FOR THIS FACILITY

CWNS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110035844664**

NAME: **TULSA CITY OF (OK0026239) SOUTHSIDE WWTP**

LOCATION ADDRESS: **5300 SOUTH ELWOOD AVENUE**
TULSA, OK 74107-9433

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP

TULSA CITY OF (OK0026239) SOUTHSIDE WWTP

PROGRAM/S LISTED FOR THIS FACILITY

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

4952 - SEWERAGE SYSTEMS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110043257061**

NAME: **TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP**

LOCATION ADDRESS: **5300 SOUTH ELWOOD**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **6**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP

PROGRAM/S LISTED FOR THIS FACILITY

ICIS - INTEGRATED COMPLIANCE INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110059049774**

NAME: **RAVEN LINING SYSTEMS INC.**

LOCATION ADDRESS: **5300 SOUTH ELWOOD**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

RAVEN LINING SYSTEMS INC.

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

325510 - PAINT AND COATING MANUFACTURING.

Back to Report Summary

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: **110009433639**
REGISTRY ID: **110009433639**
NAME: **TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP**
ADDRESS: **5300 SOUTH ELWOOD**
TULSA OK 74107
STANDARD INDUSTRIAL CLASSIFICATION: **SEWERAGE SYSTEMS**

REGIONAL DOCKETS

CAA-06-2011-3512

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

CASE NUMBER: **06-2011-3512**
RANK ORDER: **NOT REPORTED**
VIOLATION: **RISK MANAGEMENT PLAN - CAA**

CASE IDENTIFIER

CASE NUMBER: **06-2011-3512**
FISCAL YEAR: **2011**
CASE NAME: **TULSA METROPOLITAN UTILITY AUTHORITY**
ACTIVITY TYPE: **ADMINISTRATIVE - FORMAL**
ACTIVITY STATUS: **CLOSED**
ACTIVITY STATUS DATE: **1/6/2011**
LEAD: **EPA**
CASE STATUS DATE: **1/6/2011**
DOJ DOCKET NUMBER: **NOT REPORTED**
ENFORCEMENT OUTCOME: **FINAL ORDER WITH PENALTY**
MULTIMEDIA FLAG: **NOT REPORTED**
ENFORCEMENT SUMMARY:

FAILED TO COMPLY WITH THE REGULATIONS OF THE RISK MANAGEMENT PLAN.

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **CAA 113D1 ACTION FOR PENALTY - 112(R) EXPEDITED SETTLEMENT PROGRAM**

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

Back to Report Summary

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: **110064618025**
REGISTRY ID: **110064618025**
NAME: **TMUA SOUTH**
ADDRESS: **5300 S ELWOOD AVE.**
TULSA OK 74107
STANDARD INDUSTRIAL CLASSIFICATION: **SEWERAGE SYSTEMS**

REGIONAL DOCKETS

- NO REGIONAL DOCKETS REPORTED

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

- NO VIOLATIONS REPORTED

CASE IDENTIFIER

CASE NUMBER: **06-N00003648**
FISCAL YEAR: **1993**
CASE NAME: **TMUA SOUTH (PERMIT OK0026239) LETTER OF VIOLATION/WARNING LETTER**
ACTIVITY TYPE: **ADMINISTRATIVE - INFORMAL**
ACTIVITY STATUS: **ACHIEVED**
ACTIVITY STATUS DATE: **01/25/1993**
LEAD: **EPA**
CASE STATUS DATE: **01/25/1993**
DOJ DOCKET NUMBER: **NOT REPORTED**
ENFORCEMENT OUTCOME: **NOT REPORTED**
MULTIMEDIA FLAG: **NO**
ENFORCEMENT SUMMARY:
COMMENTS MIG

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **LETTER OF VIOLATION/ WARNING LETTER**

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

Back to Report Summary

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: **1906178064**
REGISTRY ID: **110001635080**
NAME: **TMUA SOUTH**
ADDRESS: **5300 S ELWOOD AVE.**
TULSA OK 74107
STANDARD INDUSTRIAL CLASSIFICATION: **SEWERAGE SYSTEMS**

REGIONAL DOCKETS

S-20402-08-1

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

- NO VIOLATIONS REPORTED

CASE IDENTIFIER

CASE NUMBER: **OK-N00001224**
FISCAL YEAR: **2008**
CASE NAME: **TMUA SOUTH (PERMIT OK0026239) ADMINISTRATIVE ORDER**
ACTIVITY TYPE: **ADMINISTRATIVE - FORMAL**
ACTIVITY STATUS: **FINAL ORDER ISSUED**
ACTIVITY STATUS DATE: **4/30/2008**
LEAD: **STATE**
CASE STATUS DATE: **4/30/2008**
DOJ DOCKET NUMBER: **NOT REPORTED**
ENFORCEMENT OUTCOME: **NOT REPORTED**
MULTIMEDIA FLAG: **N**
ENFORCEMENT SUMMARY:
COMMENTS MIG

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **STATE CWA NON PENALTY AO**

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

Back to Report Summary

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: **295972502**
REGISTRY ID: **110043257061**
NAME: **TULSA METROPOLITAN UTILITY AUTHORITY SOUTHSIDE WWTP**
ADDRESS: **5300 SOUTH ELWOOD**
TULSA OK 74107
STANDARD INDUSTRIAL CLASSIFICATION: **NOT REPORTED**

REGIONAL DOCKETS

CAA-06-2011-3512

RELATED ACTIVITIES

- NO RELATED ACTIVITIES REPORTED

VIOLATIONS

CASE NUMBER: **06-2011-3512**
RANK ORDER: **NOT REPORTED**
VIOLATION: **RISK MANAGEMENT PLAN - CAA**

CASE IDENTIFIER

CASE NUMBER: **06-2011-3512**
FISCAL YEAR: **2011**
CASE NAME: **TULSA METROPOLITAN UTILITY AUTHORITY**
ACTIVITY TYPE: **ADMINISTRATIVE - FORMAL**
ACTIVITY STATUS: **CLOSED**
ACTIVITY STATUS DATE: **1/6/2011**
LEAD: **EPA**
CASE STATUS DATE: **1/6/2011**
DOJ DOCKET NUMBER: **NOT REPORTED**
ENFORCEMENT OUTCOME: **FINAL ORDER WITH PENALTY**
MULTIMEDIA FLAG: **NOT REPORTED**
ENFORCEMENT SUMMARY:

FAILED TO COMPLY WITH THE REGULATIONS OF THE RISK MANAGEMENT PLAN.

ENFORCEMENT TYPE

ENFORCEMENT TYPE: **CAA 113D1 ACTION FOR PENALTY - 112(R) EXPEDITED SETTLEMENT PROGRAM**

POLLUTANTS CITED

- NO POLLUTION CITED REPORTED

Back to Report Summary

Integrated Compliance Information System National Pollutant Discharge Elimination System (ICISNPDES)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

NPDES ID: **OK0026239INPDES** FACILITY #: **110064618025**
NAME: **TMUA SOUTH**
PHYSICAL ADDRESS: **5300 S ELWOOD AVE. W2NWNWS36T19NR12EIM**
TULSA OK 74107
COUNTY: **TULSA**
FACILITY TYPE: **MUNICIPAL OR WATER DISTRICT**
IMPAIRED WATERS: **NOT REPORTED**

STANDARD INDUSTRIAL CLASSIFICATION

4952-SEWERAGE SYSTEMS

PERMITS

FACILITY TYPE INDICATOR: **POTABLE WATER**
PERMIT TYPE: **NPDES INDIVIDUAL PERMIT**
MAJOR MINOR FACILITY: **MAJOR DISCHARGER**
PERMIT STATUS: **EFFECTIVE**
WATER BODY: **120420010010_00 ARKANSAS R**
PERMIT NAME: **TMUA SOUTH**
AGENCY TYPE: **STATE**
ORIGINAL ISSUE DATE: **7/11/1974**
ISSUE DATE: **8/2/2013**
ISSUING AGENCY: **ODEQ**
EFFECTIVE DATE: **9/1/2013**
EXPIRATION DATE: **8/31/2018**
RETIREMENT DATE: **NOT REPORTED**
TERMINATION DATE: **NOT REPORTED**
PERMIT COMPLIANCE STATUS: **NOT REPORTED**
PERMIT SUBJECT TO DMR RUN: **YES**
REPORTABLE NONCOMPLIANCE TRACKING IS ON: **YES**

INSPECTIONS

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **01/29/2013**
ACTUAL END DATE: **01/30/2013**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **03/23/1976**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**

ACTUAL END DATE: **10/06/2004**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **05/24/2000**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **08/05/1982**

MONITOR TYPE: **SAMPLING**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **12/08/1977**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **04/30/1991**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **03/14/1990**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **09/30/2005**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **04/28/1994**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **05/05/2009**
ACTUAL END DATE: **05/05/2009**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/09/1988**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/24/1999**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/05/1999**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **11/18/2013**
ACTUAL END DATE: **11/18/2013**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **05/27/1993**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **10/26/1979**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/19/2001**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **02/19/1987**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **04/10/2002**

MONITOR TYPE: **OVERSIGHT**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **02/08/2007**
ACTUAL END DATE: **02/08/2007**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**

ACTUAL BEGIN DATE: **10/27/2014**
ACTUAL END DATE: **10/27/2014**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/18/1986**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/16/1998**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **09/03/1986**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **02/26/2008**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/17/1985**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **05/20/2010**
ACTUAL END DATE: **05/20/2010**

MONITOR TYPE: **AUDIT**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **05/09/1989**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **09/17/1985**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **02/27/1997**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **12/17/1986**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/22/1983**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **05/20/1992**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **12/02/1985**

MONITOR TYPE: **SAMPLING**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **03/23/1976**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **01/25/2012**
ACTUAL END DATE: **01/25/2012**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **12/28/2010**
ACTUAL END DATE: **12/28/2010**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **12/06/2002**

MONITOR TYPE: **SAMPLING**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **10/26/1979**

MONITOR TYPE: **EVALUATION**

LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **12/08/1977**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **09/30/1994**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **06/19/1984**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **01/25/2007**

MONITOR TYPE: **OVERSIGHT**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **02/26/2008**

MONITOR TYPE: **RECONNAISSANCE WITHOUT SAMPLING**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **03/18/1986**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **12/28/1995**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **03/28/1985**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **EPA**
ACTUAL BEGIN DATE: **NOT REPORTED**
ACTUAL END DATE: **01/18/1977**

MONITOR TYPE: **EVALUATION**
LEAD AGENCY: **STATE**
ACTUAL BEGIN DATE: **NOT REPORTED**

ACTUAL END DATE: **01/26/2004**

HISTORIC COMPLIANCE

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19853**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19873**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19874**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19881**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19882**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19883**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19891**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**

NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19894**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19901**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19902**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19903**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **4**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19904**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19911**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19912**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19913**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19914**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19921**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19922**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19923**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19924**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**

NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19931**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19932**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19933**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19934**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19941**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19942**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19943**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19944**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19951**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19952**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19953**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19954**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19961**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19962**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19963**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19964**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19971**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19972**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19973**
HISTORIC NON-COMPLIANCE: **RESOLVED - THE FACILITY HAS RETURNED TO COMPLIANCE WITH ITS PERMIT CONDITIONS, EITHER WITH OR WITHOUT ISSUANCE OF AN ENFORCEMENT ACTION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19974**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - EFFLUENT VIOLATIONS OF NON-MONTHLY AVERAGE LIMITS (TECHNICAL REVIEW CRITERIA AND CHRONIC)**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19981**
HISTORIC NON-COMPLIANCE: **RESOLVED - THE FACILITY HAS RETURNED TO COMPLIANCE WITH ITS PERMIT CONDITIONS, EITHER WITH OR WITHOUT ISSUANCE OF AN ENFORCEMENT ACTION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19982**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19983**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **3**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19984**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND THE FACILITY IS NOT MEETING ITS COMPLIANCE SCHEDULE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **2**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19991**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **1**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19992**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19993**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - REPORTING VIOLATION - NON-RECEIPT OF DMR**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **19994**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20001**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20002**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **1**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20003**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20004**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY**

COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **1**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20011**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20012**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20013**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20014**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20021**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20022**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**

NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20023**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20024**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20031**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20032**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20033**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20034**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY**

COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20041**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20042**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **3**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20043**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - COMPLIANCE SCHEDULE REPORTING VIOLATION**
NUMBER OF E90 VIOLATIONS: **2**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20044**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20051**
HISTORIC NON-COMPLIANCE: **RESOLVED - THE FACILITY HAS RETURNED TO COMPLIANCE WITH ITS PERMIT CONDITIONS, EITHER WITH OR WITHOUT ISSUANCE OF AN ENFORCEMENT ACTION**
NUMBER OF E90 VIOLATIONS: **1**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20052**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **12**

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20053**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **2**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20054**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **1**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20061**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20062**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **4**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20063**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20064**
HISTORIC NON-COMPLIANCE: **RESOLVED PENDING - AN ENFORCEMENT ACTION HAS BEEN ISSUED, AND FACILITY COMPLIANCE WITH THE ACTION IS PENDING FINAL COMPLETION**

NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20071**
HISTORIC NON-COMPLIANCE: **NOT CONSIDERED IN RNC/SNC BASED ON MANUAL REVIEW OF DATA BY STATE OR EPA REGION.**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20072**
HISTORIC NON-COMPLIANCE: **NOT CONSIDERED IN RNC/SNC BASED ON MANUAL REVIEW OF DATA BY STATE OR EPA REGION.**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20082**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **4**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20083**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **4**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **1**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20084**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **2**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20091**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**

NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20092**
HISTORIC NON-COMPLIANCE: **NOT CONSIDERED IN RNC/SNC BASED ON MANUAL REVIEW OF DATA BY STATE OR EPA REGION.**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20093**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20103**
HISTORIC NON-COMPLIANCE: **NOT CONSIDERED IN RNC/SNC BASED ON MANUAL REVIEW OF DATA BY STATE OR EPA REGION.**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20111**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20113**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **1**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20114**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - EFFLUENT VIOLATIONS OF NON-MONTHLY AVERAGE LIMITS (TECHNICAL REVIEW CRITERIA AND CHRONIC)**
NUMBER OF E90 VIOLATIONS: **1**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20121**
HISTORIC NON-COMPLIANCE: **RESOLVED - THE FACILITY HAS RETURNED TO COMPLIANCE WITH ITS PERMIT CONDITIONS, EITHER WITH OR WITHOUT ISSUANCE OF AN ENFORCEMENT ACTION**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20122**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20123**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - COMPLIANCE SCHEDULE REPORTING VIOLATION**
NUMBER OF E90 VIOLATIONS: **1**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20124**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **2**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20131**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20132**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - REPORTING VIOLATION - NON-RECEIPT OF DMR**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20133**
HISTORIC NON-COMPLIANCE: **RESOLVED - THE FACILITY HAS RETURNED TO COMPLIANCE WITH ITS PERMIT CONDITIONS, EITHER WITH OR WITHOUT ISSUANCE OF AN ENFORCEMENT ACTION**
NUMBER OF E90 VIOLATIONS: **1**

NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20141**
HISTORIC NON-COMPLIANCE: **NOT REPORTED**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **1**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **1**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20142**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **0**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **4**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **3**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20143**
HISTORIC NON-COMPLIANCE: **RNC/CATEGORY II - REPORTABLE NON-COMPLIANCE**
NUMBER OF E90 VIOLATIONS: **1**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **4**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **4**

HISTORIC NON-COMPLIANCE QUARTER (YYYYQ): **20144**
HISTORIC NON-COMPLIANCE: **SNC/CATEGORY I - REPORTING VIOLATION - NON-RECEIPT OF DMR**
NUMBER OF E90 VIOLATIONS: **2**
NUMBER OF COMPLIANCE SCHEDULE VIOLATIONS: **0**
NUMBER OF SINGLE EVENT VIOLATIONS: **0**
NUMBER OF PERMIT SCHEDULE VIOLATIONS: **0**

SINGLE EVENT VIOLATIONS

VIOLATION ID: **3600610085**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **10/27/2014**
BEGIN DATE: **10/27/2014**
END DATE: **10/27/2014**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **DURING CEI INSPECTION**

VIOLATION ID: **1200011210**
VIOLATION TYPE: **S**

VIOLATION: **MANAGEMENT PRACTICE VIOLATIONS - BIOSOLIDS/SEWAGE SLUDGE VIOLATION (PART 503 AND STATE REGULATIONS)**
VIOLATION DATE: **11/11/1995**
BEGIN DATE: **11/11/1995**
END DATE: **11/11/1995**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011211**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **1/15/1997**
BEGIN DATE: **1/15/1997**
END DATE: **2/21/2006**
RNC DETECTION: **MANUAL 2A2 - UNAUTHORIZED BYPASS**
RNC DETECTION DATE: **1/15/1997**
RNC RESOLUTION: **RE - RESOLVED RP BY NPDES CLOSURE OF ENF. ACTION FINAL ORDER WITH COMP. SCHEDULE**
RNC RESOLUTION DATE: **2/21/2006**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011213**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **4/10/2002**
BEGIN DATE: **4/10/2002**
END DATE: **4/10/2002**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011214**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **5/24/2000**
BEGIN DATE: **5/24/2000**
END DATE: **5/24/2000**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011216**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **6/24/1999**
BEGIN DATE: **6/24/1999**
END DATE: **6/24/1999**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011217**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **1/25/2007**
BEGIN DATE: **1/25/2007**
END DATE: **1/25/2007**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011219**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **10/6/2004**
BEGIN DATE: **10/6/2004**
END DATE: **10/6/2004**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011221**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **3/19/2008**
BEGIN DATE: **3/19/2008**
END DATE: **3/19/2008**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011222**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **3/18/2008**
BEGIN DATE: **3/18/2008**
END DATE: **3/18/2008**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011224**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **1/11/2006**
BEGIN DATE: **1/11/2006**
END DATE: **1/11/2006**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011225**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **1/5/2006**
BEGIN DATE: **1/5/2006**
END DATE: **1/5/2006**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011227**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **2/26/2008**
BEGIN DATE: **2/26/2008**
END DATE: **2/26/2008**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011229**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **11/18/1987**
BEGIN DATE: **11/18/1987**
END DATE: **11/18/1987**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011230**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **11/17/1987**
BEGIN DATE: **11/17/1987**
END DATE: **11/17/1987**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011231**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **6/7/1985**
BEGIN DATE: **6/7/1985**
END DATE: **6/7/1985**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011233**
VIOLATION TYPE: **S**
VIOLATION: **REPORTING VIOLATIONS - NONCOMPLIANCE WITH SECTION 308 INFORMATION REQUEST**
VIOLATION DATE: **2/1/1991**
BEGIN DATE: **2/1/1991**
END DATE: **2/1/1991**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**

RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **308 ORDER FOR MWPP**

VIOLATION ID: **1200011234**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **10/30/1990**
BEGIN DATE: **10/30/1990**
END DATE: **11/20/1991**
RNC DETECTION: **MANUAL 2A2 - UNAUTHORIZED BYPASS**
RNC DETECTION DATE: **10/30/1990**
RNC RESOLUTION: **RE - MANUAL RESOLUTION BY ENFORCEMENT ACTION**
RNC RESOLUTION DATE: **11/20/1991**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011209**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **6/16/1998**
BEGIN DATE: **6/16/1998**
END DATE: **6/16/1998**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011212**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **12/6/2002**
BEGIN DATE: **12/6/2002**
END DATE: **12/6/2002**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011215**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **6/19/2001**
BEGIN DATE: **6/19/2001**
END DATE: **6/19/2001**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**

RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011218**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **9/30/2005**
BEGIN DATE: **9/30/2005**
END DATE: **9/30/2005**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011220**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **1/26/2004**
BEGIN DATE: **1/26/2004**
END DATE: **1/26/2004**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1200011223**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **3/3/2008**
BEGIN DATE: **3/3/2008**
END DATE: **3/3/2008**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011226**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **1/3/2006**
BEGIN DATE: **1/3/2006**
END DATE: **1/3/2006**
RNC DETECTION: **NOT REPORTED**

RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011232**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **10/28/1991**
BEGIN DATE: **10/28/1991**
END DATE: **6/26/1997**
RNC DETECTION: **MANUAL 2A2 - UNAUTHORIZED BYPASS**
RNC DETECTION DATE: **10/28/1991**
RNC RESOLUTION: **RE - RESOLVED RP BY NPDES CLOSURE OF ENF. ACTION FINAL ORDER WITH COMP. SCHEDULE**
RNC RESOLUTION DATE: **6/26/1997**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1200011235**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **12/16/1988**
BEGIN DATE: **12/16/1988**
END DATE: **12/16/1988**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DETECTED DURING INSPECTION**

VIOLATION ID: **1802272464**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **5/20/2010**
BEGIN DATE: **5/20/2010**
END DATE: **5/20/2010**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **DURING CEI INSPECTION**

VIOLATION ID: **1400164989**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **7/1/2008**
BEGIN DATE: **7/1/2008**
END DATE: **7/1/2008**

RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1400164990**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **7/14/2008**
BEGIN DATE: **7/14/2008**
END DATE: **7/14/2008**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1400164988**
VIOLATION TYPE: **S**
VIOLATION: **EFFLUENT VIOLATIONS - UNAPPROVED BYPASS**
VIOLATION DATE: **6/30/2008**
BEGIN DATE: **6/30/2008**
END DATE: **6/30/2008**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **NOT REPORTED**

VIOLATION ID: **1800100849**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **5/5/2009**
BEGIN DATE: **5/5/2009**
END DATE: **5/5/2009**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **VIOLATION DURING CEI INSPECTION**

VIOLATION ID: **2201146008**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **12/28/2010**
BEGIN DATE: **12/28/2010**

END DATE: **12/28/2010**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **DURING CEI INSPECTION**

VIOLATION ID: **3401217703**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **1/29/2013**
BEGIN DATE: **1/29/2013**
END DATE: **1/30/2013**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **DURING CEI INSPECTION**

VIOLATION ID: **2602940022**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **1/25/2012**
BEGIN DATE: **1/25/2012**
END DATE: **1/25/2012**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **DURING CEI INSPECTION**

VIOLATION ID: **3403599564**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **11/18/2013**
BEGIN DATE: **11/18/2013**
END DATE: **11/18/2013**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **DURING CEI INSPECTION**

VIOLATION ID: **3602277706**
VIOLATION TYPE: **S**
VIOLATION: **PERMIT VIOLATIONS - VIOLATION SPECIFIED IN COMMENT**
VIOLATION DATE: **6/19/2015**

BEGIN DATE: **6/19/2015**
END DATE: **6/19/2015**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**
VIOLATION COMMENT: **CITIZEN COMPLAINT ON REHAB CONSTRUCTION**

FORMAL ENFORCEMENT ACTIONS

ENFORCEMENT IDENTIFIER: **OK-N00001224**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE CWA NON PENALTY AO**
ENFORCEMENT ACTION DATE: **4/30/2008**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-N00000960**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE ADMINISTRATIVE ORDER OF CONSENT**
ENFORCEMENT ACTION DATE: **10/26/1999**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **06-1985-N038**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **CWA 309A AO FOR COMPLIANCE**
ENFORCEMENT ACTION DATE: **9/6/1985**
AGENCY: **EPA**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **06-1992-N194**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **CWA 309A AO FOR COMPLIANCE**
ENFORCEMENT ACTION DATE: **11/20/1991**
AGENCY: **EPA**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-S-20402-15-1**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE CWA NON PENALTY AO**
ENFORCEMENT ACTION DATE: **8/19/2015**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**

TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **06-1988-N153**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **CWA 309A AO FOR COMPLIANCE**
ENFORCEMENT ACTION DATE: **3/21/1988**
AGENCY: **EPA**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-08-212**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE CWA PENALTY AO**
ENFORCEMENT ACTION DATE: **9/8/2008**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-20402-12-1**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE CWA NON PENALTY AO**
ENFORCEMENT ACTION DATE: **1/26/2012**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-S-20402-15-2**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE CWA NON PENALTY AO**
ENFORCEMENT ACTION DATE: **12/2/2015**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **06-1990-N132**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **CWA 309A AO FOR COMPLIANCE**
ENFORCEMENT ACTION DATE: **5/17/1990**
AGENCY: **EPA**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **06-1991-N100**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **CWA 309A AO FOR COMPLIANCE**
ENFORCEMENT ACTION DATE: **2/1/1991**
AGENCY: **EPA**

TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **06-1989-N096**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **CWA 309A AO FOR COMPLIANCE**
ENFORCEMENT ACTION DATE: **12/16/1988**
AGENCY: **EPA**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-N00000855**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE ADMINISTRATIVE ORDER OF CONSENT**
ENFORCEMENT ACTION DATE: **10/25/1999**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

ENFORCEMENT IDENTIFIER: **OK-N00000062**
ACTIVITY TYPE: **ADMINISTRATIVE, FORMAL**
ENFORCEMENT TYPE: **STATE ADMINISTRATIVE ORDER OF CONSENT**
ENFORCEMENT ACTION DATE: **1/15/1997**
AGENCY: **STATE**
TOTAL FEDERAL PENALTY ASSESSED: **NOT REPORTED**
TOTAL STATE LOCAL PENALTY ASSESSED: **NOT REPORTED**

EFFLUENT VIOLATIONS

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TGP3B-PASS/FAIL STATIC RENEWAL 7 DAY CHRONIC CERIODAPHNIA**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00310-BOD, 5-DAY, 20 DEG. C**
MONITORING END DATE: **01/31/2005**
EXCEEDENCE LIMIT PERCENTAGE: **99999**

VALUE QUALIFIER CODE: **>**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/10/2005**
DAYS LATE: **NOT REPORTED**
STANDARD UNITS: **1576.3788**
LIMIT VALUE TYPE: **QUANTITY1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **06/30/2012**
EXCEEDENCE LIMIT PERCENTAGE: **178**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **07/12/2012**
DAYS LATE: **2**
STANDARD UNITS: **13253.62188864**
LIMIT VALUE TYPE: **QUANTITY1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **00400-PH**
MONITORING END DATE: **12/31/2012**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **04/11/2013**
DAYS LATE: **90**
STANDARD UNITS: **6.58**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **50060-CHLORINE, TOTAL RESIDUAL**
MONITORING END DATE: **06/30/2005**
EXCEEDENCE LIMIT PERCENTAGE: **1920**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**

VALUE RECEIVED DATE: **07/12/2005**
DAYS LATE: **2**
STANDARD UNITS: **2**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00310-BOD, 5-DAY, 20 DEG. C**
MONITORING END DATE: **01/31/2005**
EXCEEDENCE LIMIT PERCENTAGE: **99999**
VALUE QUALIFIER CODE: **>**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/10/2005**
DAYS LATE: **NOT REPORTED**
STANDARD UNITS: **54.5**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00400-PH**
MONITORING END DATE: **01/31/2015**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **03/13/2015**
DAYS LATE: **30**
STANDARD UNITS: **7.1**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **03/13/2015**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **03/13/2015**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **01/31/2015**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **03/13/2015**
DAYS LATE: **30**

STANDARD UNITS: **5.9**
LIMIT VALUE TYPE: **CONCENTRATION2**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **03/13/2015**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **03/13/2015**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TOP3B-NOEC LETHAL STATIC RENEWAL 7 DAY CHRONIC CERIODAPHNIA DUBIA**
MONITORING END DATE: **12/31/2012**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **04/11/2013**
DAYS LATE: **90**
STANDARD UNITS: **24**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TAM6C-LC50 STATRE 48HR ACUTE PIMEPHALES**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **>**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **100**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00310-BOD, 5-DAY, 20 DEG. C**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **7.9**
LIMIT VALUE TYPE: **CONCENTRATION3**

RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00310-BOD, 5-DAY, 20 DEG. C**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **247.0214**
LIMIT VALUE TYPE: **QUANTITY1**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **7.4**
LIMIT VALUE TYPE: **CONCENTRATION2**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **50060-CHLORINE, TOTAL RESIDUAL**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **486**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **.58**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **07/10/2004**

RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **00610-NITROGEN, AMMONIA TOTAL [AS N]**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **.1**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TOP6C-NOEC LETHAL STATIC RENEWAL 7 DAY CHRONIC PIMEPHALES PROMELAS**
MONITORING END DATE: **12/31/2012**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **04/11/2013**
DAYS LATE: **90**
STANDARD UNITS: **24**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TQP3B-COEF OF VAR STATRE 7DAY CHRONIC CERIODAPHNIA**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **18**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00310-BOD, 5-DAY, 20 DEG. C**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **4.9**
LIMIT VALUE TYPE: **CONCENTRATION2**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

EFFLUENT VIOLATIONS contd..
VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TIM3D-LC50 PASS/FAIL STATIC RENEWAL 48HR ACUTE DAPHNIA PULEX**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TIM3D-LC50 PASS/FAIL STATIC RENEWAL 48HR ACUTE DAPHNIA PULEX**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **01/31/2005**
EXCEEDENCE LIMIT PERCENTAGE: **232**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/10/2005**
DAYS LATE: **NOT REPORTED**
STANDARD UNITS: **149.4**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TJP6C-%MORTALITY STATIC RENEWAL 7DAY CHRONIC PIMEPHALES PROMELAS**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **50060-CHLORINE, TOTAL RESIDUAL**
MONITORING END DATE: **05/31/2013**
EXCEEDENCE LIMIT PERCENTAGE: **200**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **06/12/2013**
DAYS LATE: **2**
STANDARD UNITS: **.3**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**

MONITORING END DATE: **05/31/2008**
EXCEEDENCE LIMIT PERCENTAGE: **31**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **06/12/2008**
DAYS LATE: **2**
STANDARD UNITS: **6247.1308**
LIMIT VALUE TYPE: **QUANTITY1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **30500-COLIFORM, FECAL - % SAMPLES EXCEEDING LIMIT**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00400-PH**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **7.1**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

EFFLUENT VIOLATIONS contd..
VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TPP3B-NOEC SUB-LETHAL STATIC RENEWAL 7 DAY CHRONIC CERIODAPHNIA DUBIA**
MONITORING END DATE: **05/31/2014**

EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **20**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TLP6C-LOW FLOW PASS/FAIL SURVIVAL TEST STATIC RENEWAL 7 DAY CHRONIC PIMEPHALES PROMELAS**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **02/29/2004**
EXCEEDENCE LIMIT PERCENTAGE: **104**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **03/11/2004**
DAYS LATE: **1**
STANDARD UNITS: **92**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **00610-NITROGEN, AMMONIA TOTAL [AS N]**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**

UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **.1**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **01/15/2015**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **02/12/2015**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TGP3B-PASS/FAIL STATIC RENEWAL 7 DAY CHRONIC CERIODAPHNIA**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **20**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TJP6C-%MORTALITY STATIC RENEWAL 7DAY CHRONIC PIMEPHALES PROMELAS**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **13**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **50060-CHLORINE, TOTAL RESIDUAL**
MONITORING END DATE: **05/31/2011**
EXCEEDENCE LIMIT PERCENTAGE: **200**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **06/13/2011**

DAYS LATE: **3**
STANDARD UNITS: **.3**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **TRC LIMITATIONS EXCEEDED, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **09/30/2011**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/30/2011**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TQP3B-COEF OF VAR STATRE 7DAY CHRONIC CERIODAPHNIA**
MONITORING END DATE: **11/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/12/2015**
DAYS LATE: **59**
STANDARD UNITS: **31**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **50060-CHLORINE, TOTAL RESIDUAL**
MONITORING END DATE: **06/30/2014**
EXCEEDENCE LIMIT PERCENTAGE: **304**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **07/11/2014**
DAYS LATE: **1**
STANDARD UNITS: **.4**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **00610-NITROGEN, AMMONIA TOTAL [AS N]**
MONITORING END DATE: **12/31/2012**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **<**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **04/11/2013**
DAYS LATE: **90**
STANDARD UNITS: **.1**

LIMIT VALUE TYPE: **CONCENTRATION2**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **02/10/2013**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **04/11/2013**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **01/31/2015**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **03/13/2015**
DAYS LATE: **30**
STANDARD UNITS: **6.6**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **03/13/2015**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **03/13/2015**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TPP3B-NOEC SUB-LETHAL STATIC RENEWAL 7 DAY CHRONIC CERIODAPHNIA DUBIA**
MONITORING END DATE: **12/31/2012**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **04/11/2013**
DAYS LATE: **90**
STANDARD UNITS: **24**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00310-BOD, 5-DAY, 20 DEG. C**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **9.3**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**

RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TAM3D-LC50 STATIC RENEWAL 48HR ACUTE DAPHNIA PULEX**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **100**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TGP6C-PASS/FAIL STATRE 7DAY CHRONIC PIMEPHALES PROMELAS**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **05/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **11/18/2004**
DAYS LATE: **99**
STANDARD UNITS: **9.1**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NON-RECEIPT VIOLATION, NON-MONTHLY AVERAGE**
RNC DETECTION DATE: **07/10/2004**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**

RNC RESOLUTION DATE: **11/18/2004**

VIOLATION: **D90-DMR, LIMITED - OVERDUE**
PARAMETER: **00400-PH**
MONITORING END DATE: **01/31/2015**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **03/13/2015**
DAYS LATE: **30**
STANDARD UNITS: **6.7**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **50050-FLOW, IN CONDUIT OR THRU TREATMENT PLANT**
MONITORING END DATE: **01/31/2015**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **03/13/2015**
DAYS LATE: **30**
STANDARD UNITS: **17.63**
LIMIT VALUE TYPE: **QUANTITY1**
RNC DETECTION: **NON-RECEIPT OF DMR/SCHEDULE REPORT**
RNC DETECTION DATE: **03/13/2015**
RNC RESOLUTION: **RE - BACK INTO COMPLIANCE**
RNC RESOLUTION DATE: **03/13/2015**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TLP3B-LOW FLOW PASS/FAIL SURVIVAL TEST STATIC RENEWAL 7 DAY CHRONIC CERIODAPHNIA DUBIA**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **03/31/2004**
EXCEEDENCE LIMIT PERCENTAGE: **7**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **04/12/2004**
DAYS LATE: **2**
STANDARD UNITS: **48**
LIMIT VALUE TYPE: **CONCENTRATION3**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **D80-DMR, MONITOR ONLY - OVERDUE**
PARAMETER: **TJM3D-%MORTALITY STATIC RENEWAL 48HR ACUTE DAPHNIA PULEX**
MONITORING END DATE: **05/31/2014**
EXCEEDENCE LIMIT PERCENTAGE: **NOT REPORTED**
VALUE QUALIFIER CODE: **=**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **10/27/2014**
DAYS LATE: **134**
STANDARD UNITS: **0**
LIMIT VALUE TYPE: **CONCENTRATION1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

VIOLATION: **E90-DMR, LIMITED - NUMERIC VIOLATION**
PARAMETER: **00530-SOLIDS, TOTAL SUSPENDED**
MONITORING END DATE: **01/31/2005**
EXCEEDENCE LIMIT PERCENTAGE: **197**
VALUE QUALIFIER CODE: **NOT REPORTED**
UNIT CODE: **NOT REPORTED**
VALUE RECEIVED DATE: **02/10/2005**
DAYS LATE: **NOT REPORTED**
STANDARD UNITS: **7078.4502**
LIMIT VALUE TYPE: **QUANTITY1**
RNC DETECTION: **NOT REPORTED**
RNC DETECTION DATE: **NOT REPORTED**
RNC RESOLUTION: **NOT REPORTED**
RNC RESOLUTION DATE: **NOT REPORTED**

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

FACILITY INFORMATION

EPA ID#: **OKD980623011**
NAME: **TULSA CITY SOUTHSIDE SEWAGE TRTMNT PLT**
ADDRESS: **5300 S ELWOOD AVE**
TULSA, OK 74107
CONTACT NAME: **CHARLES-L KIMBERLING**
CONTACT ADDRESS: **2317 S JACKSON AVE**
TULSA OK 74107
CONTACT PHONE: **918-581-5189**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**
CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS)
22132 - SEWAGE TREATMENT FACILITIES
SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)
DATE RECEIVED BY AGENCY: **08/18/1980**
NAME: **TULSA CITY SOUTHSIDE SEWAGE TRTMNT PLT**

OWNER TYPE: **NOT REPORTED**
OWNER NAME: **NOT REPORTED**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Back to Report Summary

Tier II Hazardous Substance Inventory Reports (TIERII)

MAP ID# 4

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 627 ft. (Lower than TP)

SITE INFORMATION

UNIQUE ID: **3650948201**
SITE ID: **NOT REPORTED**
NAME: **CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT**
ADDRESS: **5300 S ELWOOD AVE.**
TULSA, OK
SIGNED DATE: **NOT REPORTED**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **CITY OF TULSA--SOUTHSIDE WASTEWATER TREATMENT PLANT**

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 5

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 650 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7214107**
NAME: **GREEN METAL FABRICATORS**
ADDRESS: **906 W SKELLY DRIVE**
TULSA, OK 74157

OWNER INFORMATION

OWNER NAME: **GREEN METAL FABRICATORS**
ADDRESS: **906 W SKELLY DRIVE**
TULSA, OK 74107
OWNER PHONE: **918-446-1571**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **2000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **2/28/2008**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 5

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 650 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110059534302**

NAME: **GREEN METAL FABRICATORS**

LOCATION ADDRESS: **906 W. SKELLY DR.**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

GREEN METAL FABRICATORS

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

332710 - MACHINE SHOPS.

Back to Report Summary

Tier II Hazardous Substance Inventory Reports (TIERII)

MAP ID# 5

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 650 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **1288198702**
SITE ID: **NOT REPORTED**
NAME: **GREEN METAL FABRICATORS**
ADDRESS: **906 WEST SKELLY DRIVE**
TULSA, OK
SIGNED DATE: **NOT REPORTED**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **GREEN METAL FABRICATORS**

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 6

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 651 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7203097**
NAME: **UNITED STEEL ERECTORS, INC.**
ADDRESS: **820 WEST SKELLY DRIVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **UNITED STEEL ERECTORS INC**
ADDRESS: **820 W SKELLY DR**
TULSA, OK 74107
OWNER PHONE: **918-446-6635**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **4000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/9/1982**
CLOSED DATE: **12/23/1998**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 6

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 651 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110022583809**

NAME: **AIRPORT INDUSTRIAL CENTER LAGOON**

LOCATION ADDRESS: **820 W SKELLY DR**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

AIRPORT INDUSTRIAL CENTER LAGOON

PROGRAM/S LISTED FOR THIS FACILITY

OK-FMS - OKLAHOMA- FACILITY MANAGEMENT SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Tier II Hazardous Substance Inventory Reports (TIERII)

MAP ID# 6

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 651 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **3829977342**
SITE ID: **NOT REPORTED**
NAME: **RELADYNE**
ADDRESS: **820 W. SKELLY DRIVE, BLDG. F**
TULSA, OK
SIGNED DATE: **NOT REPORTED**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **RELADYNE**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **7QFY7H00T7T8**
SITE ID: **FATR20107QFY7H00T7T8**
NAME: **PEPSI BEVERAGES COMPANY - TULSA**
ADDRESS: **510 W. SKELLY DRIVE**
TULSA, OK 74107
SIGNED DATE: **02/11/2011**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **PEPSI BEVERAGES COMPANY - TULSA**

CHEMICAL LOCATION: **SOUTH OF BOTTLE PLANT**
CHEMICAL AMOUNT: **3500 POUNDS**

CHEMICAL LOCATION: **WEST OF CAN PLANT**
CHEMICAL AMOUNT: **3500 POUNDS**

CHEMICAL LOCATION: **NORTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK NORTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK SOUTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE AND CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **WEST OF WHSE, EAST OF CAN PLANT, SOUTH OF BOTTLE P**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BATTERIES**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT CONCENTRATE ROOM**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE PLANT CONCENTRATE ROOM**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BATTERIES FOR MHE**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL NAME: **AMMONIA (ANNHYDROUS)**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **ARGON-NITROGEN GAS MIXTURE**
MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **BLEACH**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **CARBON DIOXIDE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **CAUSTIC SODA**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **ETHANE-PROPANE MIXTURE, REFRIGERATED LIQUID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**

PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **LEAD**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **NOT REPORTED**
SOLID: **YES**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **PHOSPHORIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **SULFURIC ACID (BATTERIES)**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **NOT REPORTED**
SOLID: **YES**
PURE: **NOT REPORTED**
MIXTURE: **YES**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **5NAH4L0020JR**
SITE ID: **FATR20095NAH4L0020JR**
NAME: **PEPSI BOTTLING GROUP ~ TULSA**
ADDRESS: **510 WEST SKELLY DRIVE**
TULSA, OK 74107
SIGNED DATE: **2/18/2010**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **PEPSI BOTTLING GROUP ~ TULSA**

CHEMICAL LOCATION: **SOUTH OF BOTTLE PLANT**
CHEMICAL AMOUNT: **3000 POUNDS**

CHEMICAL LOCATION: **WEST OF CAN PLANT**
CHEMICAL AMOUNT: **3000 POUNDS**

CHEMICAL LOCATION: **NORTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK NORTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK SOUTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK EAST OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE AND CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **2 USTS ON LAWTON NORTH OF SPECIAL EVENTS**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK WEST OF FLEET SHOP**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **WEST OF WHSE, EAST OF CAN PLANT, & SOUTH OF BOTTLE**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT CONCENTRATE ROOM**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE PLANT CONCENTRATE ROOM**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BATTERIES FOR MHE**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BATTERIES FOR MHE**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **AT PH NEUTRALIZATION STATION**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL NAME: **AMMONIA (ANHYDROUS)**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **ARGON-NITROGEN GAS MIXTURE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **BLEACH**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **CARBON DIOXIDE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **CAUSTIC SODA**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**

LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **DIESEL FUEL**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **ETHANE-PROPANE MIXTURE, REFRIGERATED LIQUID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PHOSPHORIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **LEAD**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **NOT REPORTED**
SOLID: **YES**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **SULFURIC ACID (BATTERIES)**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **YES**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **SULFURIC ACID 93% SOLUTION**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **4Z3LG4002ZPX**
SITE ID: **FATR20064Z3LG4002ZPX**
NAME: **PEPSI BOTTLING GROUP**
ADDRESS: **510 WEST SKELLY DRIVE**
TULSA, OK 74107
SIGNED DATE: **2/28/2007**
VALIDATION REPORT: **THIS FACILITY PASSED ALL VALIDATION CHECKS.**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **PEPSI BOTTLING GROUP**
SITE TYPE: **BOT & CAN SOFT DRNK & CARB WA**

CHEMICAL LOCATION: **2 USTS ON LAWTON NORTH OF SPECIAL EVENTS BUILDING**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT CONCENTRATE ROOM**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **NORTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **SOUTH OF BOTTLE PLANT**
CHEMICAL AMOUNT: **3000 POUNDS**

CHEMICAL LOCATION: **TANK WEST OF FLEET SHOP**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **WEST OF CAN PLANT**
CHEMICAL AMOUNT: **3000 POUNDS**

CHEMICAL LOCATION: **BOTTLE AND CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **BOTTLE PLANT CONCENTRATE ROOM**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK NORTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **TANK SOUTH OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL NAME: **AMMONIA (ANHYDROUS)**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **CARBON DIOXIDE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **YES**

SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **DIESEL FUEL**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **ARGON-NITROGEN GAS MIXTURE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **NOT REPORTED**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PHOSPHORIC ACID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **ETHANE-PROPANE MIXTURE, REFRIGERATED LIQUID**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **YES**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **CAUSTIC SODA**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **BLEACH**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

MIXTURE CHEMICAL: **ANHYDROUS AMMONIA**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **40U4WB02SE7Q**
SITE ID: **FATR200640U4WB02SE7Q**
NAME: **PEPSI BOTTLING GROUP**
ADDRESS: **510 WEST SKELLY DRIVE**
TULSA, OK 74107
SIGNED DATE: **2/28/2007**
VALIDATION REPORT: **THIS FACILITY PASSED ALL VALIDATION CHECKS.**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **PEPSI BOTTLING GROUP**
SITE TYPE: **BOT & CAN SOFT DRNK & CARB WA**

CHEMICAL LOCATION: **BOTTLE PLANT AND CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT AND BOTTLE PLANT CONCENTRATION ROOMS**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **NW CORNER OF CAN PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **CAN PLANT AND BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **NORTH AND SOUTH OF CAN PLANT; EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **NORTH OF CAN PLANT, EAST OF BOTTLE PLANT**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **ON LAWTON STREET NORTH OF SPECIAL**
CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **SOUTH OF BOTTLE PLANT**

CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL LOCATION: **WEST OF FLEET SHOP**

CHEMICAL AMOUNT: **NOT REPORTED**

CHEMICAL NAME: **AMMONIA (ANHYDROUS)**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **NOT REPORTED**

GAS: **YES**

LIQUID: **YES**

SOLID: **NOT REPORTED**

PURE: **YES**

MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **SODIUM HYPOCHLORITE 12.5 %**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **NOT REPORTED**

GAS: **YES**

LIQUID: **YES**

SOLID: **NOT REPORTED**

PURE: **YES**

MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **PHOSPHORIC ACID**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **NOT REPORTED**

GAS: **NOT REPORTED**

LIQUID: **YES**

SOLID: **NOT REPORTED**

PURE: **NOT REPORTED**

MIXTURE: **YES**

CHEMICAL NAME: **PROPANE**

MAXIMUM AMOUNT: **NOT REPORTED**

FIRE: **YES**

GAS: **YES**

LIQUID: **YES**

SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **DIESEL FUEL**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **YES**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **CARBON DIOXIDE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

CHEMICAL NAME: **SODIUM HYDROXIDE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **NOT REPORTED**
LIQUID: **YES**
SOLID: **NOT REPORTED**
PURE: **NOT REPORTED**
MIXTURE: **YES**

CHEMICAL NAME: **ARGON-NITROGEN GAS MIXTURE**
MAXIMUM AMOUNT: **NOT REPORTED**
FIRE: **NOT REPORTED**
GAS: **YES**
LIQUID: **NOT REPORTED**
SOLID: **NOT REPORTED**
PURE: **YES**
MIXTURE: **NOT REPORTED**

Back to Report Summary

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7205576**
NAME: **PEPSI BOTTLING GROUP**
ADDRESS: **510 W SKELLY DRIVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **PEPSI BOTTLING GROUP**
ADDRESS: **510 W SKELLY DR**
TULSA, OK 74107
OWNER PHONE: **918-408-6093**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **500**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **7/6/1990**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **10**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **NOT LISTED**
CAPACITY: **7000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **3/11/2008**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **11**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **300**
TANK TYPE: **ABOVEGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**

INSTALLED DATE: **4/24/1966**
CLOSED DATE: **7/6/1990**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/24/1966**
CLOSED DATE: **7/6/1990**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **4**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/24/1982**
CLOSED DATE: **7/6/1990**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **5**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/24/1982**
CLOSED DATE: **7/6/1990**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **6**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **NOT LISTED**
CAPACITY: **500**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/25/1971**
CLOSED DATE: **7/6/1990**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **7**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **10000**
TANK TYPE: **UNDERGROUND STORAGE TANK**

INSTALLED DATE: **7/1/1990**
CLOSED DATE: **8/13/2008**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **8**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **10000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **7/1/1990**
CLOSED DATE: **8/13/2008**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **9**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **MOTOR OIL**
CAPACITY: **275**
TANK TYPE: **ABOVEGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**
10	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**
11	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**
2	**STEEL**	**SINGLE WALLED**	**STEEL**
3	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**
4	**STEEL**	**SINGLE WALLED**	**STEEL**
5	**STEEL**	**SINGLE WALLED**	**STEEL**
6	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**
7	**FIBERGLASS REINFORCED PLASTIC**	**SINGLE WALLED**	**FIBERGLASS**
8	**FIBERGLASS REINFORCED PLASTIC**	**SINGLE WALLED**	**FIBERGLASS**
9	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110059173790**

NAME: **PEPSI BOTTLING GROUPS**

LOCATION ADDRESS: **510 W. SKELLY DR.**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

PEPSI BOTTLING GROUPS

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

312111 - SOFT DRINK MANUFACTURING.

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110058050451**

NAME: **PEPSI BOTTLING GROUP**

LOCATION ADDRESS: **510 WEST SKELLY DR**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

PEPSI BOTTLING GROUP

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

OSHA-IMIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

2086 - BOTTLED AND CANNED SOFT DRINKS AND CARBONATED WATERS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

312111 - SOFT DRINK MANUFACTURING.

312111 - SOFT DRINK MANUFACTURING.

312111 - SOFT DRINK MANUFACTURING.

312111 - SOFT DRINK MANUFACTURING.

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110009435003**

NAME: **PEPSI BOTTLING GROUP (PBG)**

LOCATION ADDRESS: **510 WEST SKELLY DRIVE**
TULSA, OK 74107-9408

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

PEPSI BOTTLING GROUP (PBG)
PEPSI COLA BOTTLING CO
PEPSI-BOTTLING GROUP

PROGRAM/S LISTED FOR THIS FACILITY

TRIS - TOXIC CHEMICAL RELEASE INVENTORY SYSTEM
RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

2086 - BOTTLED AND CANNED SOFT DRINKS AND CARBONATED WATERS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

312111 - SOFT DRINK MANUFACTURING.
312111 - SOFT DRINK MANUFACTURING.

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKR000003608**
NAME: **BOTTLING GROUP LLC**
ADDRESS: **510 W SKELLY DR**
TULSA, OK 74107
CONTACT NAME: **CHRISTINA KEARNS**
CONTACT ADDRESS: **510 W SKELLY DR**
TULSA OK 74107
CONTACT PHONE: **918-445-8011**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **12/09/2005**

OWNER TYPE: **OTHER**
OWNER NAME: **PEPSI COLA BOTTLING CO**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **BOTTLING GROUP LLC**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
RAY NEWMAN	**PLT MGR**	**11/15/2005**

INDUSTRY CLASSIFICATION (NAICS)

312111 - SOFT DRINK MANUFACTURING

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **12/09/2005**
NAME: **BOTTLING GROUP LLC**
DATE RECEIVED BY AGENCY: **03/22/2001**
NAME: **PEPSI COLA BOTTLING CO**
DATE RECEIVED BY AGENCY: **09/11/1997**
NAME: **PEPSI COLA BOTTLING CO**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **12/09/2005**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

10/02/2002 **CEI COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS

10/02/2002 **262.A GENERATORS - GENERAL**

ENFORCEMENTS

10/02/2002 **122 NOT REPORTED**

HAZARDOUS WASTE

D001	**IGNITABLE WASTE**
D002	**CORROSIVE WASTE**
D006	**CADMIUM**
D008	**LEAD**
D027	**1,4-DICHLOROBENZENE**
D039	**TETRACHLOROETHYLENE**
D040	**TRICHLORETHYLENE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Back to Report Summary

Toxics Release Inventory (TRI)

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

FACILITY INFORMATION

ID #: **74107PPSCL510WE**

OWNER NAME: **PEPSICO INC**

FACILITY NAME: **PEPSI BOTTLING GROUP (PBG)**

ADDRESS: **510 W SKELLY DRIVE**
TULSA, OK 74107

COUNTY: **TULSA**

(NAICS) INDUSTRIAL CLASSIFICATION

312111 - THIS U.S. INDUSTRY COMPRISES ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING SOFT DRINKS AND ARTIFICIALLY CARBONATED WATERS.

CHEMICAL/S RELEASED

AMMONIA, CHLORINE

RELEASE INFORMATION

(Release amounts are reported in pounds)

REPORT YEAR	FUGITIVE AIR	STACK AIR	WATER RELEASE	CLASS I INJECTION WELLS	CLASS II - V INJECTION WELLS	RCRA C / OTHER LANDFILLS	LAND TREATMENT
2003	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2002	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2001	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1999	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1997	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1996	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1995	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	5.00	5.00	0.00	0.00	0.00	0.00	0.00
1993	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1992	5.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	5.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1989	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1988	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Back to Report Summary

Tier II Hazardous Substance Inventory Reports (TIERII)

MAP ID# 7

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 643 ft. (Higher than TP)

SITE INFORMATION

UNIQUE ID: **1272606707**
SITE ID: **NOT REPORTED**
NAME: **BOTTLING GROUP LLC - 510 W. SKELLY DRIVE**
ADDRESS: **510 W. SKELLY DRIVE**
TULSA, OK
SIGNED DATE: **NOT REPORTED**
VALIDATION REPORT: **NOT REPORTED**
MAILING ADDRESS: **ADDRESS NOT REPORTED**
CITY NOT REPORTED, STATE NOT REPORTED

SITE DETAILS

OTHER FACILITY NAME: **BOTTLING GROUP LLC - 510 W. SKELLY DRIVE**

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 8

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 712 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7206802**
NAME: **ALVIN DUNDEE**
ADDRESS: **5048 S 33RD W AVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **ALVIN DUNDEE**
ADDRESS: **PO BOX 2391**
TULSA, OK 74101
OWNER PHONE: **918-446-5555**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **KEROSENE**
CAPACITY: **0**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT LISTED**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **KEROSENE**
CAPACITY: **0**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT LISTED**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **KEROSENE**
CAPACITY: **0**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT LISTED**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**UNKNOWN**	**SINGLE WALLED**	**STEEL**
2	**UNKNOWN**	**SINGLE WALLED**	**STEEL**
3	**UNKNOWN**	**SINGLE WALLED**	**STEEL**

Underground and Aboveground Storage Tanks (UAST)

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 8

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 712 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004744297**

NAME: **FULLER DX SERVICE STA**

LOCATION ADDRESS: **5047 S 33RD W AVE**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

FULLER DX SERVICE STA

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

MAP ID# 8

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 712 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD000719963**
NAME: **FULLER DX SERVICE STA**
ADDRESS: **5047 S 33RD W AVE**
TULSA, OK 74107
CONTACT NAME: **JAMES FULLER**
CONTACT ADDRESS: **5047 S 33RD W AVE**
TULSA OK 74107
CONTACT PHONE: **NOT REPORTED**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **JAMES F FULLER**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **08/18/1980**
NAME: **FULLER DX SERVICE STA**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000

D001 **IGNITABLE WASTE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 8

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 712 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7212992**
NAME: **RETAIL BUILDINGS, INC**
ADDRESS: **51ST & 33RD W AVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **RETAIL BUILDINGS INC**
ADDRESS: **3000 NE 63RD ST**
OKLAHOMA CITY, OK 73121
OWNER PHONE: **NOT REPORTED**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **11/1/1988**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1500**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **11/1/1988**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **4000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **NOT REPORTED**
CLOSED DATE: **11/1/1988**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**
2	**STEEL**	**SINGLE WALLED**	**STEEL**
3	**STEEL**	**SINGLE WALLED**	**STEEL**

Underground and Aboveground Storage Tanks (UAST)

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 9

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 698 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004745134**

NAME: **SUNOCO SERVICE STATION**

LOCATION ADDRESS: **2940 W SKELLY DR**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

SUNOCO SERVICE STATION

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

MAP ID# 9

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 698 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD000821132**
NAME: **SUNOCO SERVICE STATION**
ADDRESS: **2940 W SKELLY DR**
TULSA, OK 74107
CONTACT NAME: **KARL BECKERS**
CONTACT ADDRESS: **2940 W SKELLY DR**
TULSA OK 74107
CONTACT PHONE: **314-878-4810**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/18/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **SUN OIL COMPANY OF PENNSYLVANIA**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **08/18/1980**
NAME: **SUNOCO SERVICE STATION**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D000

D001 **IGNITABLE WASTE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 9

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 698 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7212470**
NAME: **KIRKPATRICK'S TEXACO**
ADDRESS: **2940 W SKELLY DRIVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **CLIFFORD KIRKPATRICK**
ADDRESS: **22651 E 78TH STREET**
BROKEN ARROW, OK 74014
OWNER PHONE: **918-357-3991**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **500**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **6/1/1967**
CLOSED DATE: **3/25/1999**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **6/1/1967**
CLOSED DATE: **3/25/1999**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **6/1/1967**
CLOSED DATE: **3/25/1999**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**
2	**STEEL**	**SINGLE WALLED**	**STEEL**
3	**STEEL**	**SINGLE WALLED**	**STEEL**

Underground and Aboveground Storage Tanks (UAST)

Back to Report Summary

MAP ID# 10

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 671 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7204339**
NAME: **HILL'S APCO**
ADDRESS: **4999 S UNION**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **HILL'S ENTERPRISES, INC.**
ADDRESS: **4129 SW BOULEVARD**
TULSA, OK 74107
OWNER PHONE: **918-445-1552**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/20/1977**
CLOSED DATE: **6/3/1998**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/20/1977**
CLOSED DATE: **6/3/1998**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **500**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/20/1977**
CLOSED DATE: **6/3/1998**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**
2	**STEEL**	**SINGLE WALLED**	**STEEL**
3	**STEEL**	**SINGLE WALLED**	**STEEL**

Underground and Aboveground Storage Tanks (UAST)

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 11

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 628 ft. (Lower than TP)

SITE INFORMATION

SITE ID: **7212312**
NAME: **BECCO CONTRACTORS, INC.**
ADDRESS: **1130 W. SKELLY DRIVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **BECCO CONTRACTORS, INC.**
ADDRESS: **2632 S 89TH AVE**
TULSA, OK 74129
OWNER PHONE: **918-742-5907**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **12/31/1970**
CLOSED DATE: **9/21/1994**
CLOSE STATUS: **TANK CLOSED IN PLACE**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **12/31/1970**
CLOSED DATE: **9/21/1994**
CLOSE STATUS: **TANK CLOSED IN PLACE**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **USED OIL**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **12/31/1970**
CLOSED DATE: **9/21/1994**
CLOSE STATUS: **TANK CLOSED IN PLACE**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**UNKNOWN**	**SINGLE WALLED**	**NOT REPORTED**
2	**UNKNOWN**	**SINGLE WALLED**	**NOT REPORTED**
3	**UNKNOWN**	**SINGLE WALLED**	**NOT REPORTED**

Underground and Aboveground Storage Tanks (UAST)

Back to Report Summary

MAP ID# 12

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7206116**
NAME: **QUIKTRIP #9**
ADDRESS: **4966 S UNION**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **QUIKTRIP CORPORATION**
ADDRESS: **4705 S 129TH E AVENUE**
TULSA, OK 74134
OWNER PHONE: **918-615-7658**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **12000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/21/1982**
CLOSED DATE: **8/23/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **12000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/21/1982**
CLOSED DATE: **8/23/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **3**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **12000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/21/1982**
CLOSED DATE: **8/23/2012**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**FIBERGLASS REINFORCED PLASTIC**	**SINGLE WALLED**	**COPPER**
2	**FIBERGLASS REINFORCED PLASTIC**	**SINGLE WALLED**	**COPPER**

3	FIBERGLASS REINFORCED PLASTIC	SINGLE WALLED	COPPER

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 12

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

SITE INFORMATION

ID#: **2150808936**
ADDRESS: **4966 SOUTH UNION AVENUE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **4/24/2009**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 12

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

SITE INFORMATION

ID#: **1066267700**
ADDRESS: **4966 SOUTH UNION AVENUE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **4/24/2009**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 12

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004766708**

NAME: **QUIKTRIP STORE # 9**

LOCATION ADDRESS: **4966 S UNION**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

QUIKTRIP STORE # 9

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 12

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD987097458**
NAME: **QUIKTRIP STORE # 9**
ADDRESS: **4966 S UNION**
TULSA, OK 74107
CONTACT NAME: **DAVID CISIEWSKI**
CONTACT ADDRESS: **4966 S UNION**
TULSA OK 74107
CONTACT PHONE: **314-537-4048**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **04/16/1993**

OWNER TYPE: **PRIVATE**
OWNER NAME: **QUIKTRIP CORP**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**

INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **04/16/1993**
NAME: **QUIKTRIP STORE # 9**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**

VIOLATIONS **- NO VIOLATIONS REPORTED -**

ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**
D018 **BENZENE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Back to Report Summary

MAP ID# 12

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7257044**
NAME: **QUIKTRIP #9**
ADDRESS: **1617 W 51ST ST**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **QUIKTRIP CORPORATION**
ADDRESS: **4705 S 129TH E AVENUE**
TULSA, OK 74134
OWNER PHONE: **918-615-7658**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **CURRENTLY IN USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **20000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/1/2012**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK ID: **2**
TANK STATUS: **CURRENTLY IN USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **20000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/1/2012**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK ID: **3**
TANK STATUS: **CURRENTLY IN USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **12000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **2/1/2012**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **NOT REPORTED**

TANK ID: **4**
TANK STATUS: **CURRENTLY IN USE**
SUBSTANCE: **DIESEL**
CAPACITY: **12000**
TANK TYPE: **UNDERGROUND STORAGE TANK**

INSTALLED DATE: **2/1/2012**

CLOSED DATE: **NOT REPORTED**

CLOSE STATUS: **NOT REPORTED**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**FIBERGLASS REINFORCED PLASTIC**	**DOUBLE WALLED**	**FIBERGLASS**
2	**FIBERGLASS REINFORCED PLASTIC**	**DOUBLE WALLED**	**FIBERGLASS**
3	**FIBERGLASS REINFORCED PLASTIC**	**DOUBLE WALLED**	**FIBERGLASS**
4	**FIBERGLASS REINFORCED PLASTIC**	**DOUBLE WALLED**	**FIBERGLASS**

Back to Report Summary

Underground and Aboveground Storage Tanks (UAST)

MAP ID# 13

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 639 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7206786**
NAME: **THOMAS C MONAHAN, INC**
ADDRESS: **912 WEST SKELLY DRIVE**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **THOMAS C MONAHAN INC**
ADDRESS: **912 W SKELLY DR**
TULSA, OK 74107
OWNER PHONE: **912-446-4591**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **DIESEL**
CAPACITY: **2000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **5/1/1972**
CLOSED DATE: **2/27/1990**
CLOSE STATUS: **TANK CLOSED IN PLACE**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **5/1/1972**
CLOSED DATE: **2/27/1990**
CLOSE STATUS: **TANK CLOSED IN PLACE**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**
2	**STEEL**	**SINGLE WALLED**	**STEEL**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 14

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 670 ft. (Higher than TP)

SITE INFORMATION

ID#: **172322171**
ADDRESS: **2524 51ST W ST**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **4/25/2003**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 14

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 670 ft. (Higher than TP)

SITE INFORMATION

ID#: **2836651676**
ADDRESS: **2524 51ST W ST**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **10/2/2003**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 15

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 656 ft. (Higher than TP)

SITE INFORMATION

ID#: **3352168417**
ADDRESS: **802 WEST SKELLY DRIVE 132**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **1/12/2010**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 16

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 699 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110011450633**

NAME: **WINNETKA HEIGHTS SCHOOL**

LOCATION ADDRESS: **1020 W 49TH**
TULSA, OK 74107-8324

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

WINNETKA HEIGHTS SCHOOL

WINNETKA HEIGHTS CHRISTIAN SCHOOL

PROGRAM/S LISTED FOR THIS FACILITY

NCDB - NATIONAL COMPLIANCE DATABASE SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

8211 - ELEMENTARY AND SECONDARY SCHOOLS

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 16

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 699 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110025681956**

NAME: **TAFT SCHOOL**

LOCATION ADDRESS: **NO STREET REPORTED**
SAPULPA NORTH, OK

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TAFT SCHOOL

PROGRAM/S LISTED FOR THIS FACILITY

GNIS - GEOGRAPHIC NAMES INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 17

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 681 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110059424010**

NAME: **CLAUDE NEON FEDERAL**

LOCATION ADDRESS: **W. 51ST ST. & LAWTON AVE.**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

CLAUDE NEON FEDERAL

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

339950 - SIGN MANUFACTURING.

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 18

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 665 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD153523295**
NAME: **MID CONTINENT THERMO KING INC**
ADDRESS: **2228 W SKELLY DR**
TULSA, OK 74133
CONTACT NAME: **RICKY PIERCE**
CONTACT ADDRESS: **2228 W SKELLY DR**
TULSA OK 74133
CONTACT PHONE: **918-446-1431**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **01/28/1988**

OWNER TYPE: **PRIVATE**
OWNER NAME: **THERMO KING OF SPFD INC**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**
SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)
DATE RECEIVED BY AGENCY: **01/28/1988**
NAME: **MID CONTINENT THERMO KING INC**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 IGNITABLE WASTE

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Resource Conservation & Recovery Act - Generator (RCRAGR06)

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 18

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 665 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004752982**

NAME: **MID CONTINENT THERMO KING INC**

LOCATION ADDRESS: **2228 W SKELLY DR**
TULSA, OK 74133

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

MID CONTINENT THERMO KING INC

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 19

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 631 ft. (Lower than TP)

FACILITY INFORMATION

REGISTRY ID: **110059077190**

NAME: **SMR, SOUTHWEST MOLDED RUBBER, INC.**

LOCATION ADDRESS: **920 W. SKELLEY DR**
TULSA, OK 74170

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

SMR, SOUTHWEST MOLDED RUBBER, INC.

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

326299 - ALL OTHER RUBBER PRODUCT MANUFACTURING.

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 20

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKR000001677**
NAME: **BOB HURLEY FORD**
ADDRESS: **745 W 51ST S**
TULSA, OK 74107
CONTACT NAME: **ADAM GOINS**
CONTACT ADDRESS: **745 W 51ST S**
TULSA OK 74107
CONTACT PHONE: **918-445-2700**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **01/31/2012**

OWNER TYPE: **PRIVATE**
OWNER NAME: **DANIEL P AUFFENBERG**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **BOB HURLEY**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
JOE PALIOTTA	**SVC DIR**	**05/06/2005**
KEVIN D BENTON	**PARTS/SERV.DIR.**	**02/03/1998**

INDUSTRY CLASSIFICATION (NAICS)

81112 - AUTOMOTIVE BODY, PAINT, INTERIOR, AND GLASS REPAIR

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **01/31/2012**
NAME: **BOB HURLEY FORD**

DATE RECEIVED BY AGENCY: **05/11/2005**
NAME: **BOB HURLEY FORD**

DATE RECEIVED BY AGENCY: **09/22/1998**
NAME: **TULSA EXPERIENCE**

DATE RECEIVED BY AGENCY: **02/03/1998**
NAME: **TURNPIKE FORD**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **01/31/2012**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

09/30/1999 **CEI COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS

09/30/1999 **262.A GENERATORS - GENERAL**

ENFORCEMENTS

12/22/1999 **120 WRITTEN INFORMAL**

11/29/1999 **120 WRITTEN INFORMAL**

HAZARDOUS WASTE

D001 **IGNITABLE WASTE**

D006 **CADMIUM**

D008 **LEAD**

D018 **BENZENE**

D035 **METHYL ETHYL KETONE**

D039 **TETRACHLOROETHYLENE**

D040 **TRICHLORETHYLENE**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 20

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 678 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110000816653**

NAME: **BOB HURLEY FORD**

LOCATION ADDRESS: **745 W 51ST S**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

TULSA EXPERIENCE

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

81112 - AUTOMOTIVE BODY, PAINT, INTERIOR, AND GLASS REPAIR

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 21

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 654 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110059544630**

NAME: **C & A INTERNATIONAL, LLC**

LOCATION ADDRESS: **5208 S. LAWTON AVE.**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

C & A INTERNATIONAL, LLC

PROGRAM/S LISTED FOR THIS FACILITY

OSHA-OIS - *DEFINITION NOT PROVIDED BY REPORTING AGENCY

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

339999 - ALL OTHER MISCELLANEOUS MANUFACTURING.

Back to Report Summary

Toxics Release Inventory (TRI)

MAP ID# 22

Distance from Property: 0.001 mi. (5 ft.) NW
Elevation: 620 ft. (Lower than TP)

FACILITY INFORMATION

ID #: **7412WGRNHL4912S**

OWNER NAME: **SHERWOOD CONSTRUCTION CO INC**

FACILITY NAME: **GREENHILL CONCRETE PRODUCTS INC PORTABLE CONCRETE PLANT**

ADDRESS: **4912 S ELWOOD AVE**
TULSA, OK 74126-7412

COUNTY: **TULSA**

(NAICS) INDUSTRIAL CLASSIFICATION

327320 - THIS INDUSTRY COMPRISES ESTABLISHMENTS, SUCH AS BATCH PLANTS OR MIX PLANTS, PRIMARILY ENGAGED IN MANUFACTURING CONCRETE DELIVERED TO A PURCHASER IN A PLASTIC AND UNHARDENED STATE. READY-MIX CONCRETE MANUFACTURING ESTABLISHMENTS MAY MINE, QUARRY, OR PURCHASE SAND AND GRAVEL.

CHEMICAL/S RELEASED

LEAD

RELEASE INFORMATION

(Release amounts are reported in pounds)

REPORT YEAR	FUGITIVE AIR	STACK AIR	WATER RELEASE	CLASS I INJECTION WELLS	CLASS II - V INJECTION WELLS	RCRA C / OTHER LANDFILLS	LAND TREATMENT
2012	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Back to Report Summary

Listing of Permitted AIRS Facilities (AIRS)

MAP ID# 23

Distance from Property: 0.001 mi. (5 ft.) E
Elevation: 675 ft. (Higher than TP)

FACILITY INFORMATION

GEOSEARCH ID: **11047**
FACILITY ID: **11047**
AIR ID: **143-00046**
COMPANY: **AMERICAN TOWER CORP**
NAME: **I 44 AND 28TH WEST 7 SITE 308167**
ADDRESS: **0.30 MI E OF HW66/S 33RD W AVE**
TULSA, OK 74107

FACILITY DETAILS

PERMIT NUMBER:	DESCRIPTION:	DATE ISSUED:	LAST STATUS:
2013-0596-O	**NOT REPORTED**	**7/31/2013**	**PERMIT ISSUED**

CONTACT: **SANDEFUR SCOT**
FACILITY PHONE: **(602) 284-0280**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 24

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 663 ft. (Higher than TP)

SITE INFORMATION

ID#: **4143269934**
ADDRESS: **2222 WEST SKELLY DRIVE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **4/16/2009**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 24

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 663 ft. (Higher than TP)

SITE INFORMATION

ID#: **1651296378**
ADDRESS: **2222 WEST SKELLY DRIVE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **4/16/2009**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 25

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 665 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD070040258**
NAME: **FABRICATION DYNAMICS INC**
ADDRESS: **2102 W SKELLY DR**
TULSA, OK 74107
CONTACT NAME: **AL WATSON**
CONTACT ADDRESS: **PO BOX 9714**
TULSA OK 74157
CONTACT PHONE: **918-446-1638**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **06/23/1987**

OWNER TYPE: **PRIVATE**
OWNER NAME: **FABRICATION DYNAMICS**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**
SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)
DATE RECEIVED BY AGENCY: **06/23/1987**
NAME: **FABRICATION DYNAMICS INC**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

D001 IGNITABLE WASTE

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

Resource Conservation & Recovery Act - Generator (RCRAGR06)

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 25

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 665 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004750207**

NAME: **FABRICATION DYNAMICS INC**

LOCATION ADDRESS: **2102 W SKELLY DR**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

FABRICATION DYNAMICS INC
FABRICATION DYNAMICS, INC.
FABRICATION DYNAMICS, INC

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

3444 - SHEET METALWORK

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

332322 - SHEET METAL WORK MANUFACTURING.
332322 - SHEET METAL WORK MANUFACTURING.
332322 - SHEET METAL WORK MANUFACTURING.
332322 - SHEET METAL WORK MANUFACTURING.

Back to Report Summary

Facility Registry System (FRSOK)

MAP ID# 26

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 640 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110022584005**

NAME: **AMERICAN MEDICAL DISPOSAL, INC.**

LOCATION ADDRESS: **5224 S. LAWTON**
TULSA, OK 74107-9405

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

AMERICAN MEDICAL DISPOSAL, INC.

PROGRAM/S LISTED FOR THIS FACILITY

OK-FMS - OKLAHOMA- FACILITY MANAGEMENT SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

MAP ID# 26

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 640 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD987071917**
NAME: **AMERICAN MED TRANSP OF OKLAHOMA INC**
ADDRESS: **5224 S LAWTON**
TULSA, OK 74107
CONTACT NAME: **BILL MAHAN**
CONTACT ADDRESS: **5224 S LAWTON**
TULSA OK 74107
CONTACT PHONE: **918-446-5151**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **08/03/1990**

OWNER TYPE: **PRIVATE**
OWNER NAME: **AMERICAN MED TRANSP INC**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**
SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)
DATE RECEIVED BY AGENCY: **08/03/1990**
NAME: **AMERICAN MED TRANSP OF OKLAHOMA INC**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR** LAST UPDATED DATE: **04/14/2015**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -
UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

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Facility Registry System (FRSOK)

MAP ID# 26

Distance from Property: 0.01 mi. (53 ft.) E
Elevation: 640 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110004761133**

NAME: **AMERICAN MED TRANSP OF OKLAHOMA INC**

LOCATION ADDRESS: **5224 S LAWTON**
TULSA, OK 74107

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

AMERICAN MED TRANSP OF OKLAHOMA INC

PROGRAM/S LISTED FOR THIS FACILITY

RCRAINFO - RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)

NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)

NO NAICS DATA REPORTED

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 27

Distance from Property: 0.02 mi. (106 ft.) SE
Elevation: 701 ft. (Higher than TP)

SITE INFORMATION

ID#: **3842069611**
ADDRESS: **5163 33RD WEST S AVE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **10/25/2005**

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Clandestine Drug Laboratory Locations (CDL)

MAP ID# 27

Distance from Property: 0.02 mi. (106 ft.) SE
Elevation: 701 ft. (Higher than TP)

SITE INFORMATION

ID#: **2672425305**
ADDRESS: **5163 33RD WEST S AVE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **2/14/2006**

Back to Report Summary

Clandestine Drug Laboratory Locations (CDL)

MAP ID# 27

Distance from Property: 0.02 mi. (106 ft.) SE
Elevation: 701 ft. (Higher than TP)

SITE INFORMATION

ID#: **2211818878**
ADDRESS: **5163 S 33RD WEST AVE**
CITY: **TULSA**
STATE: **OK**
COUNTY: **TULSA**
SEIZURE DATE: **10/25/2005**

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Facility Registry System (FRSOK)

MAP ID# 28

Distance from Property: 0.02 mi. (106 ft.) E
Elevation: 695 ft. (Higher than TP)

FACILITY INFORMATION

REGISTRY ID: **110022588617**

NAME: **T72037**

LOCATION ADDRESS: **2434 W 50TH**
TULSA, OK 74107-7716

COUNTY: **TULSA**

EPA REGION: **06**

FEDERAL FACILITY: **NOT REPORTED**

TRIBAL LAND: **NOT REPORTED**

ALTERNATIVE NAME/S:

T72037

PROGRAM/S LISTED FOR THIS FACILITY

OK-FMS - OKLAHOMA- FACILITY MANAGEMENT SYSTEM

STANDARD INDUSTRIAL CLASSIFICATION/S (SIC)
NO SIC DATA REPORTED

NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)
NO NAICS DATA REPORTED

Back to Report Summary

Voluntary Cleanup Program Sites (VCP)

MAP ID# 29

Distance from Property: 0.04 mi. (211 ft.) E
Elevation: 635 ft. (Equal to TP)

SITE INFORMATION

GEOSEARCH ID: **455257262**
NAME: **LIMCO AIREPAIR**
ADDRESS: **5304 LAWTON AVENUE**
TULSA, OK

SITE DETAILS

CONSULTANT: **NOT REPORTED**
DATE STARTED: **10/1/2009**
DATE COMPLETED: **NOT REPORTED**
DATE INACTIVE: **NOT REPORTED**
DEQ PROJECT MANAGER: **HEATHER MALLORY**
ISSUES: **PB, CR, HG, & TCE**
STATUS: **A&M ENGINEERING AND ENVIRONMENTAL SERVICES INC. COMPLETED PHASE I AND II. SUBMITTED A SITE CHARACTERIZATION WP ON FEBRUARY 9, 2010. WE RESPONDED WITH SOME COMMENTS. WE AWAIT THEIR UPDATES TO THE WP AND A SAMPLING DATE.**
MEDIA: **GW**
BROWNFIELD: **NOT REPORTED**
INSTITUTIONAL CONTROL: **NOT REPORTED**
MEMORANDUM OF AGREEMENT AND CONSENT ORDER: **11/20/2009**
CONSENT ORDER: **NOT REPORTED**

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Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 29

Distance from Property: 0.04 mi. (211 ft.) E
Elevation: 635 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **OKR000000612**
NAME: **LIMCO AIREPAIR, INC.**
ADDRESS: **5304 S. LAWTON**
TULSA, OK 74107
CONTACT NAME: **BILL WILLIAMS**
CONTACT ADDRESS: **5304 S. LAWTON**
TULSA OK 74107
CONTACT PHONE: **918-445-4300**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **02/11/2016**

OWNER TYPE: **PRIVATE**
OWNER NAME: **LIMCO AIREPAIR, INC.**
OPERATOR TYPE: **PRIVATE**
OPERATOR NAME: **LIMCO AIREPAIR, INC.**

CERTIFICATION

CERTIFICATION NAME:	CERTIFICATION TITLE:	CERTIFICATION SIGNED DATE:
BILL WILLIAMS	**DIR. OF FACILITIES, MAINTENANCE, AND EH&S**	**02/11/2016**
BILL WILLIAMS	**DIRECTOR OF FACILITIES**	**02/07/2014**
BILL WILLIAMS	**DIRECTOR OF FACILITIES**	**01/20/2012**
BILL WILLIAMS	**DIRECTOR OF FACILITIES**	**01/28/2010**
BOB MCDONNALD	**SUPERVISOR**	**02/08/2008**
RONALD LEE	**AST GENERAL MNG**	**02/07/2006**
MICHAEL LOWTHER	**OP MGR**	**02/10/2004**
ROBERT E JOHNSON	**VICE PRESIDENT**	**03/07/2002**
BOB JOHNSON	**CONTROLLER**	**11/02/2000**

INDUSTRY CLASSIFICATION (NAICS)

333415 - AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING
336413 - OTHER AIRCRAFT PARTS AND AUXILIARY EQUIPMENT MANUFACTURING
336999 - ALL OTHER TRANSPORTATION EQUIPMENT MANUFACTURING

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **02/11/2016**
NAME: **LIMCO AIREPAIR, INC.**
DATE RECEIVED BY AGENCY: **02/18/2014**
NAME: **LIMCO AIREPAIR, INC.**
DATE RECEIVED BY AGENCY: **01/20/2012**
NAME: **LIMCO AIREPAIR, INC.**
DATE RECEIVED BY AGENCY: **02/03/2010**
NAME: **LIMCO AIREPAIR, INC.**
DATE RECEIVED BY AGENCY: **02/04/2009**
NAME: **LIMCO AIREPAIR INC**
DATE RECEIVED BY AGENCY: **02/08/2008**
NAME: **LIMCO AIREPAIR, INC.**
DATE RECEIVED BY AGENCY: **02/07/2006**
NAME: **LIMCO AIREPAIR**

Resource Conservation & Recovery Act - Generator (RCRAGR06)

DATE RECEIVED BY AGENCY: **02/10/2004**
NAME: **LIMCO AIREPAIR, INC.**

DATE RECEIVED BY AGENCY: **03/07/2002**
NAME: **LIMCO AIREPAIR (LAWTON ST.)**

DATE RECEIVED BY AGENCY: **05/08/2001**
NAME: **LIMCO AIREPAIR INC**

DATE RECEIVED BY AGENCY: **11/02/2000**
NAME: **LIMCO AIREPAIR (LAWTON ST)**

DATE RECEIVED BY AGENCY: **06/27/1995**
NAME: **LIMCO AIREPAIR INC**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **LARGE QUANTITY GENERATOR** LAST UPDATED DATE: **06/23/2016**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

05/06/2014	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
01/30/2007	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
01/19/1999	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS

01/30/2007	**262.C**	**GENERATORS - PRE-TRANSPORT**
01/30/2007	**279.C**	**USED OIL - GENERATORS**
01/19/1999	**262.A**	**GENERATORS - GENERAL**

ENFORCEMENTS

01/30/2007	**122**	**NOT REPORTED**
04/08/1999	**120**	**WRITTEN INFORMAL**

HAZARDOUS WASTE

D001	**IGNITABLE WASTE**
D002	**CORROSIVE WASTE**
D003	**REACTIVE WASTE**
D004	**ARSENIC**

D005	BARIUM
D006	CADMIUM
D007	CHROMIUM
D008	LEAD
D009	MERCURY
D010	SELENIUM
D011	SILVER
D035	METHYL ETHYL KETONE
D040	TRICHLORETHYLENE
F001	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE,TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE ANDCHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F002	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F003	THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
F005	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE,CARBON DISULFIDE, ISOBUTANOL, PYRIDINE,BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
U134	HYDROFLUORIC ACID (C,T)
U134	HYDROGEN FLUORIDE (C,T)
U159	2-BUTANONE (I,T)
U159	METHYL ETHYL KETONE (MEK) (I,T)

UNIVERSAL WASTE

WASTE TYPE:	ACCUMULATED WASTE ON-SITE:	GENERATED WASTE ON-SITE:	SOURCE TYPE:
BATTERIES	NO	NO	ANNUAL/BIENNIAL REPORT
BATTERIES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
LAMPS	NO	NO	ANNUAL/BIENNIAL REPORT
LAMPS	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
PESTICIDES	NO	NO	ANNUAL/BIENNIAL REPORT
PESTICIDES	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	NO	NO	ANNUAL/BIENNIAL REPORT
MERCURY CONTAINING EQUIPMENT	UNKNOWN	UNKNOWN	ANNUAL/BIENNIAL REPORT

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

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Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

MAP ID# 29

Distance from Property: 0.03 mi. (158 ft.) E
Elevation: 635 ft. (Equal to TP)

FACILITY INFORMATION

EPA ID#: **OKD007219157**
NAME: **ARROW OIL TOOLS INC**
ADDRESS: **5300 S LAWTON**
TULSA, OK 74107
CONTACT NAME: **ROBERT WRIGHT**
CONTACT ADDRESS: **P.O. BOX 704500**
TULSA OK 74170
CONTACT PHONE: **918-445-0411**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **06/30/1980**
CERTIFICATION **- NO CERTIFICATION REPORTED -**

OWNER TYPE: **PRIVATE**
OWNER NAME: **ARROW OIL TOOLS INC.**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

INDUSTRY CLASSIFICATION (NAICS)

333132 - OIL AND GAS FIELD MACHINERY AND EQUIPMENT MANUFACTURING

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)

DATE RECEIVED BY AGENCY: **06/30/1980**
NAME: **ARROW OIL TOOLS INC**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**

UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

09/13/1988 **CEI COMPLIANCE EVALUATION INSPECTION ON-SITE**

VIOLATIONS

09/13/1988 **262.A GENERATORS - GENERAL**

ENFORCEMENTS

10/24/1988 **120 WRITTEN INFORMAL**

HAZARDOUS WASTE

Resource Conservation & Recovery Act - Non-Generator (RCRANGR06)

- NO HAZARDOUS WASTE INFORMATION REPORTED -

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

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Voluntary Cleanup Program Sites (VCP)

MAP ID# 29

Distance from Property: 0.04 mi. (211 ft.) E
Elevation: 635 ft. (Equal to TP)

SITE INFORMATION

GEOSEARCH ID: **770492262**
NAME: **LIMCO AIREPAIR**
ADDRESS: **5304 LAWTON AVENUE**
TULSA, OK

SITE DETAILS

CONSULTANT: **NOT REPORTED**
DATE STARTED: **10/1/2009**
DATE COMPLETED: **NOT REPORTED**
DATE INACTIVE: **5/9/2013**
DEQ PROJECT MANAGER: **JORDAN CALDWELL**
ISSUES: **MEDIA: GW | PB, CR, HG, & TCE**
STATUS: **PROGRAMCODE: 292062411 | MACO: $ | CONSULTANT: A&M ENGINEERING AND ENVIRONMENTAL SERVICES INC. | COMPLETED PHASE I AND II. SUBMITTED A SITE CHARACTERIZATION WP ON FEBRUARY 9, 2010. WE RESPONDED WITH SOME COMMENTS. WE AWAITED THEIR UPDATES TO THE WP AND A SAMPLING DATE. THEY SAID THEY WANT TO WITHDRAW.**
5/9/13-MAILED LETTER CONFIRMING LIMCO'S WITHDRAWL FROM THE PROGRAM.
MEDIA: **NOT REPORTED**
BROWNFIELD: **NOT REPORTED**
INSTITUTIONAL CONTROL: **NOT REPORTED**
MEMORANDUM OF AGREEMENT AND CONSENT ORDER: **11/20/2009**
CONSENT ORDER: **NOT REPORTED**

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Underground and Aboveground Storage Tanks (UAST)

MAP ID# 30

Distance from Property: 0.06 mi. (317 ft.) E
Elevation: 698 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7211118**
NAME: **DOWELL'S LUBE & OIL PATCH**
ADDRESS: **4806 S UNION**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **DOWELL'S LUBE & OIL PATCH**
ADDRESS: **4806 S. UNION**
TULSA, OK 74107
OWNER PHONE: **918-446-6666**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **NOT LISTED**
CAPACITY: **1500**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **8/17/1987**
CLOSED DATE: **NOT REPORTED**
CLOSE STATUS: **CHANGE IN SERVICE**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**FIBERGLASS REINFORCED PLASTIC**	**SINGLE WALLED**	**FIBERGLASS**

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MAP ID# 31

Distance from Property: 0.09 mi. (475 ft.) SE
Elevation: 704 ft. (Higher than TP)

SITE INFORMATION

GEOSEARCH ID: **18508OGDO11755**
OWNER/OVERSIGHT: **VERNON DYE**
SITE NAME: **NOT REPORTED**
ADDRESS: **NOT REPORTED**
TULSA, OK 74107
CONTACT INFORMATION: **918-446-8951 5198 S 33RD W AVE TULSA, OK 74107**
DATE REFERRED TO FOR CLEANUP: **01/30/08**
REFERRED TO FOR CLEANUP: **OERB**
INSPECTOR: **WAITE**
INSPECTION DATE: **01/24/08**
STATUS: **INELIGIBLE**
REASON: **NO POLLUTION MENTIONED AT SITE**
COMMENTS: **NOT REPORTED**
OTHER COMMENTS: **PROPOSED BROWNFIELD SITE**
QUALIFYING: **NOT REPORTED**
WORK COMPLETED: **NOT REPORTED**
INSTITUTIONAL CONTROLS: **NOT REPORTED**
ALLOWABLE: **NOT REPORTED**
INTENDED: **NOT REPORTED**

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Underground and Aboveground Storage Tanks (UAST)

MAP ID# 32

Distance from Property: 0.1 mi. (528 ft.) NW
Elevation: 698 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7204847**
NAME: **DEGEN PIPE & SUPPLY COMPANY**
ADDRESS: **5000 SOUTHWEST BLVD**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **DEGEN PIPE & SUPPLY COMPANY**
ADDRESS: **5000 SOUTHWEST BLVD**
TULSA, OK 74107
OWNER PHONE: **918-446-6152**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/21/1976**
CLOSED DATE: **3/8/1994**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**

Back to Report Summary

Resource Conservation & Recovery Act - Generator (RCRAGR06)

MAP ID# 33

Distance from Property: 0.11 mi. (581 ft.) SE
Elevation: 720 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKT410010607**
NAME: **SEPTIC TANK SERVICE**
ADDRESS: **5247 S 36 W AVE**
TULSA, OK 74107
CONTACT NAME: **MIKE SEXTON**
CONTACT ADDRESS: **5247 S 36 W AVE**
TULSA OK 74107
CONTACT PHONE: **918-446-6820**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **12/24/1980**

OWNER TYPE: **PRIVATE**
OWNER NAME: **MIKE SEXTON**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

CERTIFICATION **- NO CERTIFICATION REPORTED -**
INDUSTRY CLASSIFICATION (NAICS) **- NO NAICS INFORMATION REPORTED -**
SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)
DATE RECEIVED BY AGENCY: **12/24/1980**
NAME: **SEPTIC TANK SERVICE**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR** LAST UPDATED DATE: **09/02/2000**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS **- NO EVALUATIONS REPORTED -**
VIOLATIONS **- NO VIOLATIONS REPORTED -**
ENFORCEMENTS **- NO ENFORCEMENTS REPORTED -**

HAZARDOUS WASTE

- NO HAZARDOUS WASTE INFORMATION REPORTED -
UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**
CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**
CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

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Underground and Aboveground Storage Tanks (UAST)

MAP ID# 34

Distance from Property: 0.2 mi. (1,056 ft.) E
Elevation: 622 ft. (Lower than TP)

SITE INFORMATION

SITE ID: **7203590**
NAME: **BUY-N-SAVE**
ADDRESS: **4850 S ELWOOD**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **SHELBY D OAKLEY**
ADDRESS: **4235 S 33RD WEST AVE**
TULSA, OK 74107
OWNER PHONE: **918-446-3503**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **8000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/11/1975**
CLOSED DATE: **4/6/2011**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK ID: **2**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **6000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/11/1975**
CLOSED DATE: **4/6/2011**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**
2	**STEEL**	**SINGLE WALLED**	**STEEL**

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Underground and Aboveground Storage Tanks (UAST)

MAP ID# 35

Distance from Property: 0.22 mi. (1,162 ft.) NW
Elevation: 721 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7203839**
NAME: **PRECISION PIPING**
ADDRESS: **4142 W. 49TH STR**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **BORN, INC**
ADDRESS: **408 N BOSTON**
TULSA, OK 74103
OWNER PHONE: **918-582-2186**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1000**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **4/11/1981**
CLOSED DATE: **1/7/1999**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**NOT REPORTED**

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Underground and Aboveground Storage Tanks (UAST)

MAP ID# 36

Distance from Property: 0.24 mi. (1,267 ft.) W
Elevation: 722 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7209796**
NAME: **FELL OIL & GAS**
ADDRESS: **4451 W. 51ST STR**
TULSA, OK 74107

OWNER INFORMATION

OWNER NAME: **MORRIS B FELL**
ADDRESS: **PO BX 9487**
TULSA, OK 74107
OWNER PHONE: **611-446-6114**

SITE DETAILS

TANK ID: **1**
TANK STATUS: **PERMANENTLY OUT OF USE**
SUBSTANCE: **GASOLINE**
CAPACITY: **1015**
TANK TYPE: **UNDERGROUND STORAGE TANK**
INSTALLED DATE: **1/1/1973**
CLOSED DATE: **6/17/1994**
CLOSE STATUS: **TANK REMOVED FROM GROUND**

TANK MATERIAL

TANK ID	TANK MATERIAL	TANK CONSTRUCTION	PIPE MATERIAL
1	**STEEL**	**SINGLE WALLED**	**STEEL**

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 37

Distance from Property: 0.35 mi. (1,848 ft.) E
Elevation: 630 ft. (Lower than TP)

SITE INFORMATION

SITE ID: **7209767LUAST**
NAME: **ABF FREIGHT SYSTEM INC**
ADDRESS: **4410 S JACKSON**
TULSA, OK 74107

SITE DETAILS

CASE #: **064-2355**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **9/15/1999**
CLOSE DATE: **2/14/2001**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

CASE #: **SOR-1316**
CASE TYPE: **SUSPICION OF RELEASE**
RELEASE DATE: **9/15/1999**
CLOSE DATE: **1/7/2000**
TANK TYPE: **NOT REPORTED**
CASE STATUS: **CLOSED**

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Voluntary Cleanup Program Sites (VCP)

MAP ID# 38

Distance from Property: 0.4 mi. (2,112 ft.) E
Elevation: 630 ft. (Lower than TP)

SITE INFORMATION

GEOSEARCH ID: **281382016**
NAME: **CONWAY SOUTHERN EXPRESS**
ADDRESS: **4310 S. JACKSON**
TULSA, OK

SITE DETAILS

CONSULTANT: **NOT REPORTED**
DATE STARTED: **8/7/2002**
DATE COMPLETED: **NOT REPORTED**
DATE INACTIVE: **11/22/2002**
DEQ PROJECT MANAGER: **AMIL LYON**
ISSUES: **MEDIA: SOIL | HC**
STATUS: **NOT REPORTED**
MEDIA: **NOT REPORTED**
BROWNFIELD: **NOT REPORTED**
INSTITUTIONAL CONTROL: **NOT REPORTED**
MEMORANDUM OF AGREEMENT AND CONSENT ORDER: **NOT REPORTED**
CONSENT ORDER: **NOT REPORTED**

CONSULTANT: **NOT REPORTED**
DATE STARTED: **8/7/2002**
DATE COMPLETED: **NOT REPORTED**
DATE INACTIVE: **11/22/2002**
DEQ PROJECT MANAGER: **DELETE LYON**
ISSUES: **HC**
STATUS: **NOT REPORTED**
MEDIA: **SOIL**
BROWNFIELD: **NOT REPORTED**
INSTITUTIONAL CONTROL: **NOT REPORTED**
MEMORANDUM OF AGREEMENT AND CONSENT ORDER: **NOT REPORTED**
CONSENT ORDER: **NOT REPORTED**

Back to Report Summary

Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 38

Distance from Property: 0.4 mi. (2,112 ft.) E
Elevation: 630 ft. (Lower than TP)

SITE INFORMATION

SITE ID: **7202416LUAST**
NAME: **AAA COOPER TRANSPORTATION**
ADDRESS: **4310 S JACKSON**
TULSA, OK 74107

SITE DETAILS

CASE #: **064-DL**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **12/11/1989**
CLOSE DATE: **5/23/1991**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 39

Distance from Property: 0.46 mi. (2,429 ft.) E
Elevation: 632 ft. (Lower than TP)

SITE INFORMATION

SITE ID: **7212727LUAST**
NAME: **SHOP N GO 7**
ADDRESS: **5108 S PEORIA**
TULSA, OK 74105

SITE DETAILS

CASE #: **064-2455**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **11/13/2000**
CLOSE DATE: **7/1/2002**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

CASE #: **SOR-1398**
CASE TYPE: **SUSPICION OF RELEASE**
RELEASE DATE: **11/13/2000**
CLOSE DATE: **1/24/2001**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 40

Distance from Property: 0.46 mi. (2,429 ft.) W
Elevation: 741 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7200330LUAST**
NAME: **MILLER TRUCK LINES**
ADDRESS: **4550 W 49TH**
TULSA, OK 74107

SITE DETAILS

CASE #: **064-2074**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **5/20/1998**
CLOSE DATE: **5/17/1999**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 41

Distance from Property: 0.47 mi. (2,482 ft.) E
Elevation: 633 ft. (Lower than TP)

SITE INFORMATION

SITE ID: **7207138LUAST**
NAME: **BROOKSIDE CITGO**
ADDRESS: **4954 S PEORIA**
TULSA, OK 74105

SITE DETAILS

CASE #: **064-0397**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **1/24/1992**
CLOSE DATE: **5/12/1999**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

CASE #: **BF-0211**
CASE TYPE: **BACK FILL**
RELEASE DATE: **6/26/2002**
CLOSE DATE: **NOT REPORTED**
TANK TYPE: **NOT REPORTED**
CASE STATUS: **BACK FILL**

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OCC Brownfields Public Record (BFPR)

MAP ID# 42

Distance from Property: 0.49 mi. (2,587 ft.) SE
Elevation: 756 ft. (Higher than TP)

SITE INFORMATION

GEOSEARCH ID: **18508OGDO11061**
OWNER/OVERSIGHT: **RICHARD ASH**
SITE NAME: **NOT REPORTED**
ADDRESS: **NOT REPORTED**
TULSA, OK 74132
CONTACT INFORMATION: **918-361-9518 6912 S ELWOOD AVE TULSA, OK 74132**
DATE REFERRED TO FOR CLEANUP: **11/07/07**
REFERRED TO FOR CLEANUP: **OERB**
INSPECTOR: **WAITE**
INSPECTION DATE: **10/22/07**
STATUS: **INELIGIBLE**
REASON: **T & D ONLY**
COMMENTS: **NOT REPORTED**
OTHER COMMENTS: **PROPOSED BROWNFIELD SITE**
QUALIFYING: **NOT REPORTED**
WORK COMPLETED: **NOT REPORTED**
INSTITUTIONAL CONTROLS: **NOT REPORTED**
ALLOWABLE: **NOT REPORTED**
INTENDED: **NOT REPORTED**

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Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities (RCRAT)

MAP ID# 43

Distance from Property: 0.5 mi. (2,640 ft.) NW
Elevation: 732 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD007221351**
NAME: **UPONOR ALDYL CO**
ADDRESS: **4501 W 49TH STREET**
TULSA, OK 74107
CONTACT NAME: **JERRY LAUDERDALE**
CONTACT ADDRESS: **PO BOX 9616**
TULSA OK 74107
CONTACT PHONE: **918-446-4471**
NON-NOTIFIER: **NOT A NON-NOTIFIER**
DATE RECEIVED BY AGENCY: **05/02/2003**
CERTIFICATION **- NO CERTIFICATION REPORTED -**

OWNER TYPE: **PRIVATE**
OWNER NAME: **E I DUPONT DE NEMOURS & CO INC**
OPERATOR TYPE: **NOT REPORTED**
OPERATOR NAME: **NOT REPORTED**

INDUSTRY CLASSIFICATION (NAICS)
325211 - PLASTICS MATERIAL AND RESIN MANUFACTURING

SITE HISTORY (INCLUDES GENERATORS AND NON-GENERATORS)
DATE RECEIVED BY AGENCY: **05/02/2003**
NAME: **UPONOR ALDYL CO**
DATE RECEIVED BY AGENCY: **11/18/1980**
NAME: **E I DUPONT DE NEMOURS & COMPANY**
DATE RECEIVED BY AGENCY: **08/18/1980**
NAME: **E I DUPONT DE NEMOURS & COMPANY**

CURRENT ACTIVITY INFORMATION

GENERATOR STATUS: **NOT A GENERATOR** LAST UPDATED DATE: **09/16/2004**
SUBJECT TO CORRECTIVE ACTION UNIVERSE: **NO**
TDSFs POTENTIALLY SUBJECT TO CORRECTIVE ACTION UNDER 3004 (u)/(v) UNIVERSE: **NO**
TDSFs ONLY SUBJECT TO CORRECTIVE ACTION UNDER DISCRETIONARY AUTHORITIES UNIVERSE: **NO**
NON TSDFs WHERE RCRA CORRECTIVE ACTION HAS BEEN IMPOSED UNIVERSE: **NO**
CORRECTIVE ACTION WORKLOAD UNIVERSE: **NO**

IMPORTER: **NO**
MIXED WASTE GENERATOR: **NO**
RECYCLER: **NO**
TRANSPORTER: **NO**
ONSITE BURNER EXEMPTION: **NO**
FURNACE EXEMPTION: **NO**
USED OIL REFINER: **NO**
USED OIL TRANSFER FACILITY: **NO**
UNDERGROUND INJECTION: **NO**
UNIVERSAL WASTE DESTINATION FACILITY: **NO**
TRANSFER FACILITY: **NO**
USED OIL FUEL BURNER: **NO**
USED OIL PROCESSOR: **NO**
USED OIL FUEL MARKETER TO BURNER: **NO**
SPECIFICATION USED OIL MARKETER: **NO**
USED OIL TRANSPORTER: **NO**

COMPLIANCE, MONITORING AND ENFORCEMENT INFORMATION

EVALUATIONS

05/02/2003	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
09/12/1989	**CEI**	**COMPLIANCE EVALUATION INSPECTION ON-SITE**
08/09/1985	**FRR**	**FINANCIAL RECORD REVIEW**
06/28/1984	**NRR**	**NON-FINANCIAL RECORD REVIEW**

05/03/1984 **FRR FINANCIAL RECORD REVIEW**

VIOLATIONS

05/02/2003 **262.A GENERATORS - GENERAL**

08/09/1985 **262.A GENERATORS - GENERAL**

ENFORCEMENTS

05/02/2003 **122 NOT REPORTED**

HAZARDOUS WASTE

F002 **THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE,TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001,F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.**

UNIVERSAL WASTE **- NO UNIVERSAL WASTE REPORTED -**

CORRECTIVE ACTION AREA **- NO CORRECTIVE ACTION AREA INFORMATION REPORTED -**

CORRECTIVE ACTION EVENT **- NO CORRECTIVE ACTION EVENT REPORTED -**

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Superfund Enterprise Management System Archived Site Inventory (SEMSARCH)

MAP ID# 43

Distance from Property: 0.5 mi. (2,640 ft.) NW
Elevation: 732 ft. (Higher than TP)

FACILITY INFORMATION

EPA ID#: **OKD007221351**

SITE ID#: **0604270**

NAME: **E I DUPNT DE NEMOURS & CO. INC.**

ADDRESS: **4501 WEST 49TH STREET**
TULSA, OK 74107

COUNTY: **TULSA**

FEDERAL FACILITY: **NOT A FEDERAL FACILITY**

NPL: **NOT ON THE NPL**

NON NPL STATUS: **NFRAP-SITE DOES NOT QUALIFY FOR THE NPL BASED ON EXISTING INFORMATION**

Below information was gathered from the prior NFRAP update completed in 10/2013 update:

ACTION	START DATE	COMPLETION DATE	RESPONSIBILITY
PA - PRELIMINARY ASSESSMENT	**12/10/1990**	**12/10/1990**	**EPA FUND**
DS - DISCOVERY	**NOT REPORTED**	**4/12/1990**	**EPA IN-HOUSE**
VS - ARCHIVE SITE	**NOT REPORTED**	**12/10/1990**	**EPA IN-HOUSE**

ACTION DESCRIPTIONS

PA - (PRELIMINARY ASSESSMENT) - COLLECTION OF DIVERSE EXISTING INFORMATION ABOUT THE SOURCE AND NATURE OF THE SITE HAZARD. IT IS EPA POLICY TO COMPLETE THE PRELIMINARY ASSESSMENT WITHIN ONE YEAR OF SITE DISCOVERY.

DS - (DISCOVERY) - THE PROCESS BY WHICH A POTENTIAL HAZARDOUS WASTE SITE IS BROUGHT TO THE ATTENTION OF THE EPA. THE PROCESS CAN OCCUR THROUGH THE USE OF SEVERAL MECHANISMS SUCH AS A PHONE CALL OR REFERRAL BY ANOTHER GOVERNMENT AGENCY.

VS - (ARCHIVE SITE) - THE DECISION IS MADE THAT NO FURTHER ACTIVITY IS PLANNED AT THE SITE.

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Leaking Underground and Aboveground Storage Tanks (LUAST)

MAP ID# 43

Distance from Property: 0.5 mi. (2,640 ft.) NW
Elevation: 732 ft. (Higher than TP)

SITE INFORMATION

SITE ID: **7201563LUAST**
NAME: **E.I. DU PONT DE NEMOURS & CO IN**
ADDRESS: **4501 W 49TH ST**
TULSA, OK 74107

SITE DETAILS

CASE #: **064-0594**
CASE TYPE: **CONFIRMED RELEASE**
RELEASE DATE: **7/15/1992**
CLOSE DATE: **9/3/1992**
TANK TYPE: **UNDERGROUND STORAGE TANK**
CASE STATUS: **CLOSED**

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Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

Database Name	Site ID#	Site Name	Address	City/State/Zip/County
BFPR	18507OGDO12724			TULSA, OK 74107 TULSA

AIRSAFS Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

BRS Biennial Reporting System

VERSION DATE: 12/31/11

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL Clandestine Drug Laboratory Locations

VERSION DATE: 07/01/16

The U.S. Department of Justice ("the Department") provides this information as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

DOCKETS EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

EC Federal Engineering Institutional Control Sites

VERSION DATE: 08/03/15

This database includes site locations where Engineering and/or Institutional Controls have been identified as part

of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

ERNSOK Emergency Response Notification System

VERSION DATE: 02/21/16

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FRSOK Facility Registry System

VERSION DATE: 02/03/16

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

HMIRSR06 Hazardous Materials Incident Reporting System

VERSION DATE: 11/08/15

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ICIS Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 12/06/15

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

ICISNPDES Integrated Compliance Information System National Pollutant Discharge Elimination System

VERSION DATE: 12/20/15

In 2006, the Integrated Compliance Information System (ICIS) - National Pollutant Discharge Elimination System (NPDES) became the NPDES national system of record for select states, tribes and territories. ICIS-NPDES is an information management system maintained by the United States Environmental Protection Agency's Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. ICIS-NPDES is designed to support the NPDES program at the state, regional, and national levels.

LUCIS Land Use Control Information System

VERSION DATE: 09/01/06

The LUCIS database is maintained by the U.S. Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS Material Licensing Tracking System

VERSION DATE: 02/12/16

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements.

NPDESR06 National Pollutant Discharge Elimination System

VERSION DATE: 04/01/07

Information in this database is extracted from the Water Permit Compliance System (PCS) database which is used by United States Environmental Protection Agency to track surface water permits issued under the Clean Water Act. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. The NPDES database was collected from December 2002 until April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data.

PADS PCB Activity Database System

VERSION DATE: 07/01/14

The PCB Activity Database System (PADS) is used by the United States Environmental Protection Agency to monitor the activities of polychlorinated biphenyls (PCB) handlers.

PCSR06 Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

RCRASC RCRA Sites with Controls

VERSION DATE: 02/23/16

This list of Resource Conservation and Recovery Act sites with institutional controls in place is provided by the U.S. Environmental Protection Agency.

SFLIENS CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties. This database contains those CERCLIS sites where the Lien on Property action is complete.

SSTS Section Seven Tracking System

VERSION DATE: 12/08/14

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

TRI Toxics Release Inventory

VERSION DATE: 12/31/14

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

TSCA Toxic Substance Control Act Inventory

VERSION DATE: 12/31/06

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.

NLRRCRAG No Longer Regulated RCRA Generator Facilities

VERSION DATE: 07/12/16

This database includes RCRA Generator facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly generated hazardous waste.
Large Quantity Generators: Generate 1,000 kg or more of hazardous waste during any calendar month; or Generate more than 1 kg of acutely hazardous waste during any calendar month; or Generate more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste during any calendar month; or Generate 1 kg or less of acutely hazardous waste during any calendar month, and accumulate more than 1kg of acutely hazardous waste at any time; or Generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulated more than 100 kg of that material at any time.
Small Quantity Generators: Generate more than 100 and less than 1000 kilograms of hazardous waste during any calendar month and accumulate less than 6000 kg of hazardous waste at any time; or Generate 100 kg or less of hazardous waste during any calendar month, and accumulate more than 1000 kg of hazardous waste at any time.
Conditionally Exempt Small Quantity Generators: Generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or Generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste; or Generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste during any calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste.

RCRAGR06 Resource Conservation & Recovery Act - Generator

VERSION DATE: 07/12/16

This database includes sites listed as generators of hazardous waste (large, small, and exempt) in the RCRAInfo

system. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). This database includes sites located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.
Large Quantity Generators: Generate 1,000 kg or more of hazardous waste during any calendar month; or Generate more than 1 kg of acutely hazardous waste during any calendar month; or Generate more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste during any calendar month; or Generate 1 kg or less of acutely hazardous waste during any calendar month, and accumulate more than 1kg of acutely hazardous waste at any time; or Generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulated more than 100 kg of that material at any time.
Small Quantity Generators: Generate more than 100 and less than 1000 kilograms of hazardous waste during any calendar month and accumulate less than 6000 kg of hazardous waste at any time; or Generate 100 kg or less of hazardous waste during any calendar month, and accumulate more than 1000 kg of hazardous waste at any time.
Conditionally Exempt Small Quantity Generators: Generate 100 kilograms or less of hazardous waste per calendar month, and accumulate 1000 kg or less of hazardous waste at any time; or Generate one kilogram or less of acutely hazardous waste per calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste; or Generate 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, or acutely hazardous waste during any calendar month, and accumulate at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste.

RCRANGR06 Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 07/12/16

This database identifies RCRAInfo system sites that only handle hazardous waste, such as transporters, without generating any amount hazardous waste. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). This database includes sites located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

HISTPST Historical Gas Stations

VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes

Cities Service filling stations that were located throughout the United States in 1930.

MSHA Mine Safety and Health Administration Master Index File

VERSION DATE: 08/05/16

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health Administration (MSHA).

BF Brownfields Management System

VERSION DATE: 07/15/16

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

DNPL Delisted National Priorities List

VERSION DATE: 03/07/16

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

NLRRCRAT No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 07/12/16

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

ODI Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a

facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

RCRAT Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

VERSION DATE: 07/12/16

This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste in the RCRAInfo system. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

SEMS Superfund Enterprise Management System

VERSION DATE: 03/07/16

The U.S. Environmental Protections Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

SEMSARCH Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 03/16/16

The Superfund Enterprise Management System Archive listing (SEMS-ARCHIVE) has replaced the CERCLIS NFRAP reporting system in 2015. This listing reflect sites that have been assessed and no further remediation is planned and is of no further interest under the Superfund program.

DOD Department of Defense Sites

VERSION DATE: 06/21/10

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

FUDS Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the

U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

NLRRCRAC No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 07/12/16

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

NPL National Priorities List

VERSION DATE: 03/07/16

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

PNPL Proposed National Priorities List

VERSION DATE: 03/07/16

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

RCRAC Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 07/12/16

This database includes all hazardous waste sites with ongoing corrective action activity and where corrective action is statutorily required to be address but have not had corrective action imposed in the RCRAInfo system. The Corrective Action Program requires owners or operators of RCRA facilities (or treatment, storage, and disposal facilities) to investigate and cleanup contamination in order to protect human health and the environment. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

RCRASUBC Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 07/12/16

This database includes hazardous waste sites which are potentially subject to corrective action regardless of whether they have correction action underway, plus any sites showing a corrective action event of RFI or beyond in the RCRAInfo system. Sites conducting corrective action under analogous state authorities are also included. The United States Environmental Protection Agency defines RCRAInfo as the comprehensive information system which provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS).

RODS Record of Decision System

VERSION DATE: 07/01/13

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

Environmental Records Definitions - STATE (OK)

AIRS Listing of Permitted AIRS Facilities

VERSION DATE: 04/21/16

The Air Quality Division of the Oklahoma Department of Environmental Quality maintains this listing of operating AIRS permitted facilities.

IC Sites with Institutional Controls

VERSION DATE: 07/06/16

Institutional controls (IC) are administrative and/or legal measures in place to safeguard the public and the environment from potential contamination. In certain circumstances, local zoning or ordinances can serve as an IC. The Oklahoma Department of Environmental Quality (DEQ) has a mandatory recordable notice (deed notice) statute in its Environmental Quality Code (27A Oklahoma Statutes § 2-7-123). This database includes all DEQ Brownfields, Voluntary Cleanup, SCAP, and Superfund sites, along with sites from the Oklahoma Corporation Commission's July 2010 Brownfields list, that have had institutional controls placed on the property.

TIERII Tier II Hazardous Substance Inventory Reports

VERSION DATE: 07/06/16

The Oklahoma Department of Environmental Quality maintains this listing of Tier II facilities which store hazardous chemicals or materials on-site. The OSHA Hazard Communication Standard defines hazardous chemicals as any substance for which a facility must maintain a Material Safety Data Sheet (MSDS).

DCR Registered Dry Cleaning Facilities

VERSION DATE: 07/26/16

This listing of registered dry cleaners is maintained by the Oklahoma Department of Environmental Quality.

UAST Underground and Aboveground Storage Tanks

VERSION DATE: 06/30/16

This database includes a listing of registered underground and aboveground storage tanks and is maintained by the Oklahoma Corporation Commission.

BF OKDEQ Brownfield Properties

VERSION DATE: 07/06/16

As defined by the Oklahoma Department of Environmental Quality, this program provides a means for private parties and government entities to voluntarily investigate and if warranted, clean up properties that may be contaminated with hazardous wastes. The formal Brownfields Program provides specific state liability relief and protects the property from federal Superfund actions. This listing contains both completed Brownfield properties

and those which may complete the Brownfields Program within the next year.

BFPR OCC Brownfields Public Record

VERSION DATE: 04/07/16

Any facility or real property where normal use, reuse, expansion or redevelopment is hindered by pollution or suspected pollution of a substance or substances released by activities regulated by Oklahoma Corporation Commission (oil and gas exploration and production, pipelines, and petroleum storage tanks) qualifies as a Brownfield. This listing includes properties currently enrolled in the OCC Brownfield Program, as well as proposed brownfield properties as of April 2008.

LUAST Leaking Underground and Aboveground Storage Tanks

VERSION DATE: 06/30/16

This database includes registered leaking underground and aboveground storage tanks and is maintained by the Oklahoma Corporation Commission.

SWF Solid Waste Facilities

VERSION DATE: 06/30/16

This database is maintained by the Land Protection Division of the Oklahoma Department of Environmental Quality and contains solid waste disposal sites including storage units, transfer facilities, recycling units and treatment units.

VCP Voluntary Cleanup Program Sites

VERSION DATE: 07/07/16

The Oklahoma Department of Environmental Quality's Land Protection Division provides this list of sites in the Voluntary Cleanup Program (VCP). The VCP program provides a means for private parties and government entities to voluntarily investigate and if warranted, clean up properties that may be contaminated with hazardous wastes.

SF Superfund Listing

VERSION DATE: 06/25/15

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), otherwise referred to as Superfund, is a federal program used to cleanup our nation’s uncontrolled hazardous waste sites. Oklahoma Department of Environmental Quality works with EPA to address these sites in Oklahoma.

Environmental Records Definitions - TRIBAL

USTR06 Underground Storage Tanks On Tribal Lands

VERSION DATE: 06/16/16

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

LUSTR06 Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/15/16

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 6. This region includes the following states: Arkansas, Louisiana, New Mexico, Oklahoma, and Texas.

ODINDIAN Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

INDIANRES Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

IMAGED 10/19/2012

72-10839

)B ANTHONY
Commissioner

PATRICE DOUGLAS
Commissioner

DANA MURPHY
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 522-4810 FAX: (405) 521-4945
www.occeweb.com

JIM THORPE BLDG, ROOM 245 • P.O. BOX 52000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

October 19, 2012

Sonic-Momentum Chevrolet
707 W 51st Str
Tulsa, OK 74107

Reference: Petroleum storage tank closure for Momentum Chevrolet, 707 W 51st Str, Tulsa, OK; Facility ID #72-10839

Dear Registered Tank Owner,

We received a Underground Storage Tank Closure Report from CRA & Associates to report tank removal and sampling results at the above referenced location. Closure was completed September 4, 2012 for (1) 10,000 gallon and (4) 450 gallon steel tanks and associated piping.

Based on soil sampling results, the OCC believes that there is no contamination of concern at this site at this time. The subject tanks and associated piping are hereby considered permanently closed in accordance with OCC regulations. Should future environmental problems occur, which the OCC determines may be related to this site, additional investigation and corrective action may be required in accordance with State Law. If you have any questions regarding this matter, please contact me at (405) 522-4810.

Sincerely yours,

Terri L. Roberts
Environmental Compliance Analyst

cc: Consultant

IMAGED 10/19/2012

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

Submit this Report & Attachments within 45 days of scheduled permanent closure

Failure to submit the Tank Closure Report within 45 days is a violation of rule 165:25-1-55 subject to a $250 penalty.

PAC-0002702 (CONFIRMATION #) | ____ (BF#) | 72-10839 (FACILITY I.D. #)

Sonic - Momentum Chevrolet
OWNER'S NAME

707 W 51st Street
MAILING ADDRESS

Tulsa | OK | 74107
CITY | STATE | ZIP

Tulsa | 918-446-2200
COUNTY | AREA CODE/TELEPHONE

9/4/12
DATE WORK COMPLETED

8/31/12
DATE TANKS LAST USED

1 10,000 gal
NUMBER/SIZE OF TANKS REMOVED

Momentum Chevrolet
LOCATION NAME

707 W 51st Street
LOCATION ADDRESS (PHYSICAL LOCATION)

Tulsa | OK | 74107
CITY | STATE | ZIP

Tulsa | 918-446-2200
COUNTY | AREA CODE/TELEPHONE

NA
NEW INSTALLATION OR NUMBER/SIZE OF ACTIVE TANKS

UST & line in good condition, no holes or cracks
CONDITION OF REMOVED TANKS & LINES-VISIBLE HOLES?

DESCRIBE DISPOSAL /DISPOSITION OF REMOVED TANKS AND LINES (Tanks cannot be reused unless recertified by manufacturer. Cannot be used as culverts, etc.) Tank was removed from site and destroyed / The UST was cleaned and cut up for scrap

- **Were samples collected at each elbow, connection in the piping run, or at least every 20 feet** NA
- **Were samples collected under each tank and down gradient wall?** Yes
- **Was excavated soil removed from site?** Yes
- **Was soil manifested to a permitted landfill?** Yes
  Name of Landfill
- **Was backfill returned to the excavation?** No

NUMBER/SIZE OF TANKS CLOSED-IN-PLACE -- INDICATE TYPE OF INERT MATERIAL USED: NA

- **Assess the site for potential contamination by testing soil and/or groundwater; OCC approved by:** Yes/Jim Crawford
- **Were field-screening instruments used?** Yes
- **Type & Model Number:** Photovac 20-20 Pro
- **Date instrument last calibrated:** 9/4/2012
- **Calibrated to (type gas):** 100% Isobutylene

NOTE: If soil or groundwater samples are used for site assessment, person collecting samples must be supervised by a Licensed Remediation Consultant.

Michael Dale
NAME OF LICENSED REMEDIATION CONSULTANT

Conestoga-Rovers & Associates (CRA)
COMPANY

11004 E 51st Street | Tulsa | OK | 74146
ADDRESS | CITY | STATE | ZIP

I certify I have direct knowledge the samples were taken at locations where contamination would most likely have occurred:

#166 | 9/24/12 | 918-828-2424
CONSULTANT SIGNATURE/LICENSE # | DATE SIGNED | AREA CODE/TELEPHONE

- **Attach a site sketch that includes:**
  (a) North arrow (b) tank pit location (c) proximity of tank pit to roads, buildings or other landmarks measured in feet; (d) piping layout and pump island location(s) (e) soil sample locations, sample depths, and sample identification.
- **Also attach:** (a) scheduling letter (b) table of lab results & reports c) waste manifest(s) (d) certificate of destruction for tank(s) (e) photographic documentation (f) description of site activities and observations

PLEASE NOTE THAT INCOMPLETE OR MISSING INFORMATION WILL CAUSE REPORT TO BE RETURNED

TANK REMOVAL ACTIVITIES MUST BE SUPERVISED AT ALL TIMES BY LICENSED UST REMOVER

Loren Alcorn
NAME OF LICENSED REMOVER

Alcorn Service Co
COMPANY

PO 83 | Boyd | OK | 74008
ADDRESS | CITY | STATE | ZIP

I certify that I personally supervised all (beginning with breakout of concrete) onsite tank removal activities:

012 | 09/26/12 | 918-366-4180
UST REMOVER SIGNATURE/LICENSE # | DATE SIGNED | AREA CODE/TELEPHONE

OKLAHOMA CORPORATION COMMISSION, PETROLEUM STORAGE TANK DIVISION
P. O. BOX 52000, OKLAHOMA CITY, OK 73152-2000
(405) 521-4683

(Revised 07-2004)

IMAGED 10/19/2012

REGISTRATION FOR PETROLEUM STORAGE TANKS

OKLAHOMA CORPORATION COMMISSION
STORAGE TANK PROGRAM
P.O. Box 52000, Room. 250
Oklahoma City, OK 73152-2000

TYPE OF NOTIFICATION	STATE USE ONLY
☐ A. New Facility ☐ B. Amended	ID NUMBER: 72-10839
☒ C. Closure	DATE RECEIVED: 10-3-12
Date of Ownership Transfer:	A. Date entered into computer: 10-19-12
Number of Tanks at Facility: 5	B. Data entry clerk initials: TLR
Number of UST's at Facility: ~~5~~ 0	C. Owner was contacted to clarify responses.
Number of AST's at Facility: all removed	Comments:

INSTRUCTIONS

Form must be signed at bottom of UST Page 3 or AST Page 3. Please type or print in ink. This form must be completed for each location containing petroleum storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

GENERAL INFORMATION

In 1998 the Legislature combined statutory provisions on underground storage tanks and aboveground storage tanks so that our laws now refer simply to petroleum storage tanks, giving responsibility for their regulation to the Petroleum Storage Tank Division of the Corporation Commission. The forms for the registration of petroleum storage tanks have been revised to have three parts. The first is this page with general information. The second is for listing underground storage tanks and the third for listing aboveground storage tanks. All underground petroleum storage tanks over 110 gallons must be registered except for residential and non-commercial agricultural tanks of less than 1,100 gallons. Owners of aboveground tanks that must be registered are: airports, marinas, retail facilities (service stations) and emergency generators at hospitals, water treatment and sewer treatment plants with a capacity of 110 gallons or more; fleet and commercial facilities and bulk plants of any capacity.

I. OWNERSHIP OF TANK (S)	II. LOCATION OF TANK (S)
Owner Name (Corporation, Individual, Public Agency, or other entity)	Facility Name of Company Site Identifier, as applicable
Sonic-Momentum Chevrolet	Momentum Chevrolet
707 W 51st Street Street Address	707 W 51st Street Street Address (PO Box NOT acceptable)
Tulsa, OK 74107 City & State Zip Code	Tulsa, OK 74107 City & State Zip Code
Tulsa (918) 446-2200 County (Area Code) Phone Number	Tulsa County
918-446-5181 Fax # E-mail Address	

If known, give the geographic location of tanks by degrees, minutes, and seconds. (Example: Lat. 2, 36, 12N Long. 85, 24, 17W)

Latitude: 36° 05' 29.40" N Longitude: 95° 59' 51.56" W

IMAGED 10/19/2012

III. INDIAN LANDS

Tanks are held in Trust by the United States Bureau of Indian Affairs ☐

Tribe or Nation

IV. TYPE OF OWNER

☐ Public	☒ Private
(Owned by a government)	(NOT owned by a government)

V. TYPE OF FACILITY

If PUBLIC please mark which type:	If PRIVATE please mark which type:
☐ Federal	☐ Distributor/Retail
☐ State	☐ Private/Retail
☐ County	☒ Private/Non-Retail
☐ Municipal	☐ Residential (includes non-commercial agricultural)
☐ School	☐ Commercial Agricultural
☐ Hospital	☐ Hospital
☐ Agricultural	☐ Marina
☐ Marina	☐ Airport
☐ Airport	

VI. CONTACT PERSON IN CHARGE OF TANKS

Name: D.L. Bagwell Job Title: Service Director Phone Number: (918) 446-2200

Address: 707 W. 51st Street City: Tulsa State: OK Zip Code: 74107

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with CFR Subpart H.

In Oklahoma this means you are ready and able to pay the deductible amount of $5,000.00 on any cleanup of any pollution caused by a leaking storage tank.

(Financial Responsibility must be met and acknowledged by checking this box.) ☒

IMAGED 10/19/2012

I. UNDERGROUND STORAGE TANKS ATTACHMENT

(Complete for each tank at this location)

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4	Tank No. 5
1. Status of Tank (mark only one)					
Currently in Use	☐	☐	☐	☐	☐
Permanent Closure (Complete section II, UST Page 2)	☒	☒	☒	☒	☒
2. Date of Installation (month/year)	8/86	8/86	8/86	8/86	8/86
2a. Is Tank Compartmentalized?	☐Yes ☒No	☐Yes ☒No	☐Yes ☒No	☐Yes ☒No	☐Yes ☒No
3. Estimated Total Capacity (gallons)	10,000	450	450	450	450
4. Material of Construction (mark all that apply)					
Coated or Bare Steel	☐	☐	☐	☐	☐
Cathodically Protected Steel	☐	☐	☐	☐	☐
Composite (Steel with Fiberglass)	☒	☒	☒	☒	☒
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Lined Interior	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Polyethylene Tank Jacket	☐	☐	☐	☐	☐
Excavation Liner	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please specify					
5. Piping (Material) (mark all that apply)					
Steel (Must also be cathodically protected)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☒	☒	☒	☒	☒
Copper (Must also be cathodically protected)	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Secondary Containment	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					

IMAGED 10/19/2012

UNDERGROUND STORAGE TANKS

III. CERTIFICATION OF COMPLIANCE

(Complete Installer information only for newly installed and newly upgraded tanks at this location)

OATH: I certify the information concerning installation that is provided in UST Section I is true to the best of my belief and knowledge.

Installer Name: _____ **License #:** _____

Position: _____ **Company:** _____

Signature: _____ **Date:** _____

Cathodic Protection Installer Signature: _____

NACE Certification #: **NACE Certification Title:**

Tank Identification Number	Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
1. Release Detection (Mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	☐		☐		☐		☐		☐	
B. Tightness testing	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Monthly Inventory reconciliation	☐		☐		☐		☐		☐	
D. Automatic tank gauging	☐		☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. Interstitial monitoring Double walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring or Secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Automatic line leak detectors		☐		☐		☐		☐		☐
J. Statistical Inventory Reconciliation	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2. Spill and Overfill Protection										
A. Overfill device installed		☐		☐		☐		☐		☐
B. Spill device installed		☐		☐		☐		☐		☐

IV. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission)

DAVID L. BAGWELL — Title: Service Director

(Print) Name of owner or owner's authorized representative

Signature — Date: 7/19/12

(Submit this form with original signature only.)

OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE MUST SIGN UST PAGE 3 OR AST PAGE 3

IMAGED 10/19/2012

YC-10839

Tulsa

UNDERGROUND STORAGE TANK CLOSURE REPORT

Momentum Chevrolet
707 West 51st Street
Tulsa, Tulsa County, Oklahoma

Prepared for:
Sonic-Momentum Chevrolet
707 West 51st Street
Tulsa, Oklahoma 74107

RECEIVED
PETROLEUM STORAGE
TANK DIVISION
2012 OCT -3 PM 2:54

SEPTEMBER 2012
REF. NO. 080505 (2)

Prepared by:
Conestoga-Rovers & Associates

11004 East 51st Street
Tulsa, Oklahoma
U.S.A. 74146

Office: (918) 828-2424
Fax: (918) 828-0202

web: http://www.CRAworld.com

IMAGED 10/19/2012

CONESTOGA-ROVERS
& ASSOCIATES

11004 East 51st Street
Tulsa, OK 74146
Telephone: (918) 828-2424 Fax: (918) 828-0202
http://www.craworld.com

September 24, 2012 CRA Ref: 080505

Mr. Nick Poynter
Oklahoma Corporation Commission
Petroleum Storage Tank Division – Compliance
Jim Thorpe Building, Room 238
Oklahoma City, OK 73152-2000

RE: UST Closure Report, Momentum Chevrolet, 707 West 51st Street, Tulsa, Tulsa County, Oklahoma 74107
Facility ID: 72-10839
Conf. # PAC-0002702

Dear Mr. Poynter,

Please find the following description of activities and observations for the above referenced site (Site) regarding underground storage tank (UST) closure completed on September 4, 2012. Loren Alcorn (Alcorn) was the onsite licensed UST remover. Mike Dale of Conestoga-Rovers & Associates (CRA) was the licensed UST consultant. The UST Closure activities were performed in compliance with Oklahoma Corporation Commission Rules and Regulations OAC 165:25-3-60. The Site is located on the west side of Momentum Chevrolet's service center building in Tulsa, Oklahoma. A site vicinity map is included as ***Figure 1***. The OCC Closure Report form and UST Registration form are included with this narrative report.

The Site had one currently active UST basin containing one 10,000-gallon steel UST. There was also one small UST basin containing four 450-gallon UST's that were previously closed in place and registered as such with OCC. One fueling dispenser was associated with the active tank and was located adjacent to and above the tankhold. The UST contained unleaded gasoline. A site map is presented as ***Figure 2*** showing the UST system layout.

Prior to removing the UST's, all fluids were removed from the tank. The tank was made inert with dry ice and oxygen levels in the tank was determined to be below explosive limits prior to excavation activities with a 4-gas meter.

The backfill material (sand-gravel) was excavated from around each tank prior to removal for offsite demolition. The backfill was placed on plastic sheeting next to the tank hold and stockpiled until the analytical results were received and approval for reuse was obtained from OCC Regulatory. Water in the tank pit water was minimal and none was recovered for sampling. Composite samples were collected from the backfill material for chemical analysis.

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Employment Opportunity
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CONESTOGA-ROVERS & ASSOCIATES

ANALYTICAL RESULTS

A total of 2 confirmation closure samples were collected. One sample was collected in the native soil beneath the UST fill port at a depth of approximately 13 feet bgs. One down-gradient side-wall sample, determined to be the north wall, was collected at a depth of 6 feet bgs. The product line was over the backfill of the tank hold so no native soil sample from the dispenser was available.

The soil samples were field screened with a Photovac® 20-20 Pro photoionization detector (PID) prior to sample collection to detect the presence of volatile organic compounds (VOC's). The PID was calibrated with 100 ppm isobutylene gas the day of its use. The soil samples were shipped to Test America Laboratories in Nashville, Tennessee for detailed chemical analysis. The soil samples were analyzed for the presence of benzene, toluene, ethylbenzene, xylenes (BTEX), and total petroleum hydrocarbons (TPH) – gasoline range organics (GRO).

Soil samples results for all were below the laboratory method detection limits for BTEX and TPH(GRO) in the down-gradient soil sample M-UWT-DGW-01. Floor sample M-UST-01 detected toluene at a concentration of 0.00214 milligrams per kilogram (mg/kg). All other chemicals of concern (CoC's) were below laboratory method detection limits. A sample location map is presented as ***Figure 3*** and a summary of the CoCs for native soil is presented as ***Table 1***. The analytical results are located in the ***Laboratory Report*** section.

BACKFILL SAMPLING

A total of approximately 200 cubic yards of backfill was removed from the UST tank hold. A total of four (4) composite backfill samples were collected for detail chemical analysis. The backfill composite samples were also shipped to Test America Laboratories in Nashville, Tennessee and analyzed for the presence of BTEX, and TPH(GRO). Composite backfill sample results were sent to OCC regulatory PEA, Jim Crawford on September 10, 2012. Mr. Crawford gave his approval to reuse the backfill by email response on September 10, 2012. No elevated chemical concentrations were observed in the analytical results from the backfill. A summary of the CoCs for backfill is presented as ***Table 2***.

The UST was visually inspected for evidence of a leak or crack but none were observed. The UST was removed from the Site and transported offsite for destruction. A certificate of destruction is included in the ***Certification and Correspondence*** section of this report. The vent lines and product piping was removed and disposed. The backfill was removed from the Site and transported to a landfill. Fresh fill was imported to the Site the excavation was brought to grade. Site photographs documenting the UST closure activities are included with this report in the ***Photographs*** section.

type?

The completed UST Registration form changing this fuel system to permanently out of service is included along with the UST Closure Report form.

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CONESTOGA-ROVERS
& ASSOCIATES

If you have questions concerning the activities and descriptions in this report, please contact me at 918-828-2424 or email at mdale@CRAworld.com .

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Michael Dale
Project Manager/Geologist
OCC Licensed UST Consultant #166

MD/md

IMAGED 10/19/2012

figure #1
Site Location Map
Sonic – Momentum Chevrolet
UST Closure
707 W 51st Street, Tulsa, Oklahoma
Facility ID: 72-10839

CONESTOGA-ROVERS & ASSOCIATES

IMAGED 10/19/2012

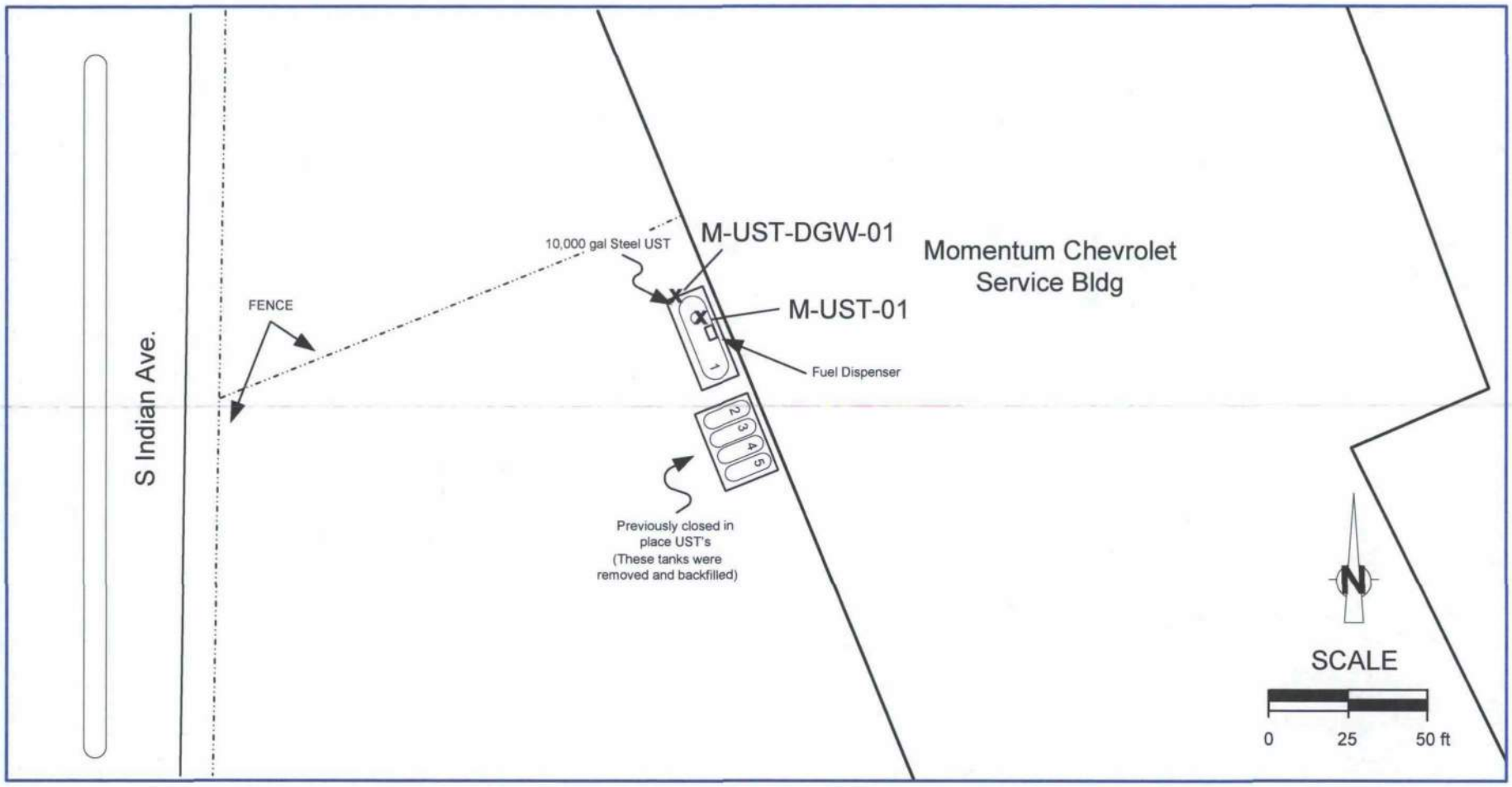

figure #3

9/4/2012 – Site Map with Sample Locations
Sonic – Momentum Chevrolet
UST Closure

707 W 51st Street, Tulsa, Oklahoma
Facility ID: 72-10839

CONESTOGA-ROVERS & ASSOCIATES

IMAGED 10/19/2012

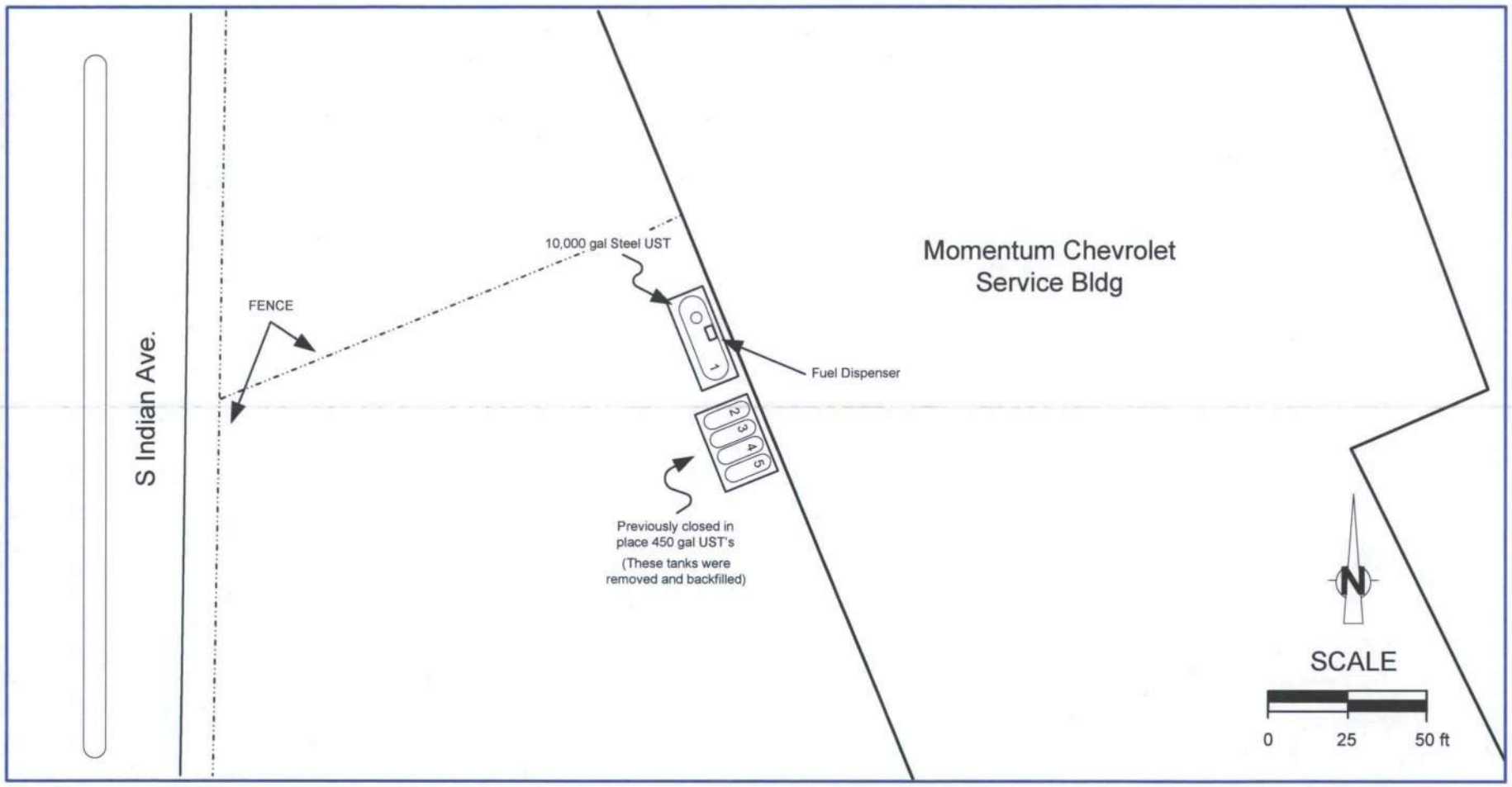

figure #2

9/4/2012 – Site Map
Sonic – Momentum Chevrolet
UST Closure

707 W 51st Street, Tulsa, Oklahoma

Facility ID: 72-10839

CONESTOGA-ROVERS & ASSOCIATES

IMAGED 10/19/2012

TABLE 1 - UST CLOSURE NATIVE SOIL ANALYTICAL RESULTS

CONESTOGA-ROVERS & ASSOCIATES

MOMENTUM CHEVROLET UST CLOSURE
707 WEST 51st STREET SOUTH
TULSA, OKLAHOMA
FACILITY ID: 72-10839

UST CLOSURE							
Sample Number	**Date Sampled**	**PID (ppm)**	**Benzene**	**Toluene**	**Ethyl-benzene**	**Xylene(s)**	**TPH (GRO)**
SOIL			Concentrations in milligrams per kilogram (mg/kg)				
OCC Action Levels (Soil)			*0.5*	*40*	*15*	*200*	*50*
M-UST-01	9/4/2012		<0.00159	0.00214	<0.00159	<0.00397	<21.9
M-UST-DGW-01	9/4/2012		<0.00182	<0.00182	<0.00182	<0.00456	<25.7

All Closure Samples = Grab samples

TABLE 2 - UST BACKFILL COMPOSITE ANALYTICAL RESULTS

CONESTOGA-ROVERS & ASSOCIATES

MOMENTUM CHEVROLET UST CLOSURE
707 WEST 51st STREET SOUTH
TULSA, OKLAHOMA
FACILITY ID: 72-10839

UST COMPOSITE BACKFILL SAMPLING							
Sample Number	**Date Sampled**	**PID (ppm)**	**Benzene**	**Toluene**	**Ethyl-benzene**	**Xylene(s)**	**TPH (GRO)**
BACKFILL			Concentrations in milligrams per kilogram (mg/kg)				
M-BF-01	9/4/2012	33.6	<0.003	<0.003	<0.003	<0.00751	<24.4
M-BF-02	9/4/2012	17.1	<0.00166	<0.00166	<0.00166	<0.00416	<25.6
M-BF-03	9/4/2012	27.7	<0.00188	<0.00188	<0.00188	<0.00471	<24.8
M-BF-04	9/4/2012	31.7	<0.0018	0.00416	0.00756	0.0448	<28

All Backfill Samples = Composite samples collected one per 50 cubic yards

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CONESTOGA-ROVERS & ASSOCIATES

Date: September 4, 2012
Project Name: Momentum Chevrolet UST Closure

Location: 707 W. 51st St., Tulsa, OK
Project #080505

PHOTO 1: Removing UST from tank hold

PHOTO 2: Loading UST to trailer for transport

PHOTO 3: Stockpiled backfill

PHOTO 4: View of UST tank hold

PHOTO 5: Backfilling UST basin

PHOTO 6: Loading UST for transport and disposal

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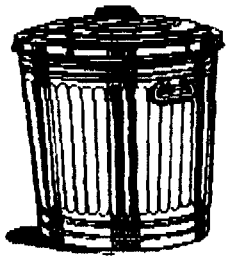
4-D Energy

Certificate of Destruction



Date: 9-4-12

Number 100728

Scrapping/Disposal Company:

Four-D Energy Inc.
P.O. Box 84
Chelsea, Oklahoma, 74016

Site of Destruction:

*Four D Energy

*Route 3

*Chelsea, OK

Tank Removal Contractor:
Petroleum Marketers Equipment Co
4373 S. 93rd E. Ave.
Tulsa, OK 74145

Tank Identification:

Tank No. One **Steel**

Dimensions: **8' X 28'** **Capacity** **10,000 Gallons**

Location: Company **Sonic Automotive**

Address 707 W. 51st

City / State Tulsa, OK 74107

Destruction Date: 9-4-12

I certify that the above described tank (s) has been rendered unusable for the storage of any fluids, and all removed fluids, sludges, and the tanks were disposed of in accordance with all applicable local, state, and federal regulations.

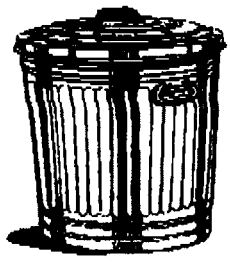
By Joe DeLozier

2012-09-10 22:42 JOE 9187893669 >> 1 918 828 0202 P 2/2

IMAGED 10/19/2012

4-D Energy

Certificate of Destruction



Date: 9-4-12

Number 100729

Scrapping/Disposal Company:

Four-D Energy Inc.
P.O. Box 84
Chelsea, Oklahoma, 74016

Site of Destruction:

*Four D

*Route 3

*Chelsea, OK

Tank Removal Contractor:

Petroleum Marketers
4373 S. 93rd E. Ave.
Tulsa, OK 74145

Tank Identification:

Tank No. Two, Three, Four and Five all Steel

Dimensions: all four 4' X 6' **Capacity 563 Gallons/ each**

Location: Sonic Automotive

Address 707 W. 51st

City / State Tulsa, OK 74107

Destruction Date: 9-10-12

I certify that the above described tank (s) has been rendered unusable for the storage of any fluids, and all removed fluids, sludges, and the tanks were disposed of in accordance with all applicable local, state, and federal regulations.

By Joe DeLozier

2012-09-10 22:42 JOE 9187893669 >> 1 918 828 0202 P 1/2

IMAGED 10/19/2012

Jody
As noted in my email to Michael Dale, the soil is well below action levels so it can be removed from the site and used as you see fit. It does not have to be placed back into the tank pit, I just assumed that would be the procedure based on the email from Michael. If you have any additional questions, please give me a call.
Jim Crawford
Project Environmental Analyst
Oklahoma Corporation Commission
405/522-6173

From: Jody Owens [mailto:jodyowens@pmetulsa.com]
Sent: Monday, September 10, 2012 12:29 PM
To: Jim Crawford
Cc: Dale, Michael
Subject: Re: Files from 490-5564-1 Momentum Chevrolete Tulsa

Jim, we have to remove the soil and install a soil that is suitable for compaction. We will take the soil to a dump site but not a landfill.

Sent from Jodys iPhone. BE SAFE, DON'T TEXT & DRIVE!

On Sep 10, 2012, at 12:08 PM, Jim Crawford <J.Crawford@occemail.com> wrote:

> Michael
> According to the analytical results, the soil is fine for fill material in the tank pit.
>
> Thanks
> Jim Crawford

From: Dale, Michael [mailto:MDale@craworld.com]
Sent: Monday, September 10, 2012 11:50 AM
To: Jim Crawford
Cc: jodyowens@PMEtulsa.com
Subject: FW: Files from 490-5564-1 Momentum Chevrolete Tulsa

Hello Jim,

Please find the attached analytical results for backfill from a tank closure at Momentum Chevrolet. The work was completed last Wednesday, Sept. 5, 2012. None of the analytical results for BTEX or TPH(GRO) exceed the OCC action levels. The owner is requesting an approval email to reuse the backfill. Thank-you

---

Michael Dale
Conestoga-Rovers & Associates, Inc.
11004 East 51st Street
Tulsa, Oklahoma 74146

918-828-2424 office
918-859-8346 cell

www.CRAworld.com

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From: Nathan O'Leary [mailto:noleary@harthickman.com]
Sent: Thursday, September 06, 2012 3:21 PM
To: Dale, Michael
Subject: FW: Files from 490-5564-1 Momentum Chevrolete Tulsa

Michael,

Attached, please find the analytical results of the soil samples you collected from the UST basin at the Momentum Chevrolet Dealership on Tuesday. Based on the concentrations I'm assuming the stockpile can go off as clean?

Thanks,
Nathan

Nathan O'Leary, **CHMM** Project Environmental Scientist
Hart & Hickman, PC | 2923 South Tryon Street Suite 100 | Charlotte, NC 28203
Direct 704-887-4607 | Mobile 704-302-4406 | Main 704-586-0007
www.harthickman.com
<image001.jpg>

From: Hayes, Ken [mailto:ken.hayes@testamericainc.com]
Sent: Thursday, September 06, 2012 3:31 PM
To: Jason Soban; Nathan O'Leary
Subject: Files from 490-5564-1 Momentum Chevrolete Tulsa

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

KEN HAYES

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.301.5035

Reference: [011308]
Attachments: 1

netCare DoubleCheck identified this as **CLEAN**. Give feedback: This is SPAM · More

IMAGED 10/19/2012

'ob Anthony
'ommissioner

Patrice Douglas
Commissioner

Dana Murphy
Commissioner

OKLAHOMA CORPORATION COMMISSION

PETROLEUM STORAGE TANK DIVISION
www.occeweb.com (405) 521-4683 FAX: (405) 521-4945
Jim Thorpe Building, Room 238 - PO Box 52000 - Oklahoma City, OK 73152-2000

August 23, 2012

Michael Dale
11004 E 51ST STREET
Tulsa, OK 74146-

Re: Permanent closure of Underground Storage Tank(s) Conf. # PAC-0002702

Facility #7210839

Scheduled Closure Date 9/4/2012

Dear Sir/Madam,

Thank you for the recent call to schedule the sampling and removal of underground storage tank(s) at the following location:

Riverside Chevrolet, Inc.
707 W 51ST ST SOUTH
Tulsa, OK 74107

Please follow this list of procedures for tank closures:

1. Schedule tank system removal and closure and soil sampling with the Commission's Petroleum Storage Tank Division 14 days in advance.
2. Ensure a safe work area according to federal, state, and local regulations.
   a. Clean, make inert and purge tanks properly in accordance with accepted industry standards, such as the American Petroleum Institute (API) Recommended Practice 1604, Closure of Underground Petroleum Storage Tanks.
   b. Observe proper venting of tanks during excavation and removal.
   c. Test tanks for an acceptable Lower Explosive Limit (LEL) of 10 percent prior to removal, and properly cap and vent them for transport.
   d. An OCC-licensed UST Remover must be onsite during all removal activities, beginning with break-out of concrete.
3. Perform sampling protocol for tanks and piping.
   a. A Commission-licensed Remediation Consultant must supervise the sampling.
   b. Soil and groundwater samples must be sent for testing to a DEQ-certified laboratory.
   ion rules.
   c. Collect soil samples in native soil 1 to 3 feet below tanks (fill-end), the down-gradient wall, beneath dispensers, and every 20 feet of metal or fiberglass product line.
4. Properly dispose of tanks, excavated soil and water.
5. Submit a written report including a summary of all site activities, table of sample depths and results, lab report and chain of custody, site sketch with all sample locations, waste (disposal, treatment or reuse) documentation, certificate of destruction for tanks, photographic evidence, and a copy of this letter to the OCC within 45 days.
6. Sample excavated backfill from tanks and lines to determine if it can or cannot be returned to the pits and/or trenches.
   a.

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Sample backfill as follows: take 1 composite sample (made up 10 grab samples) every 50 yd3. Samples must be analyzed at a certified lab. After reviewing the sampling results, the Technical Department will determine if the backfill can be returned to the pits and/or trenches.

Substantial penalties for failure to provide 48 hours' notice of schedule changes or failure to submit the tank removal report within 45 days may be assessed. If you need to reschedule, please contact the Petroleum Storage Tank Division.

Sincerely,

Terin Morris

cc: Facility File

IMAGED 10/19/2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-5564-1
TestAmerica Sample Delivery Group: SAI-048
Client Project/Site: Momentum Chevrolete Tulsa

For:
Hart & Hickman, PC
2923 S Tryon Street
Suite 100
Charlotte, North Carolina 28203

Attn: Nathan Oleary

Authorized for release by:
9/6/2012 2:29:47 PM

Ken Hayes
Project Manager I
ken.hayes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

IMAGED 10/19/2012

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IMAGED 10/19/2012

Sample Summary

lient: Hart & Hickman, PC
. roject/Site: Momentum Chevrolete Tulsa

TestAmerica Job ID: 490-5564-1
SDG: SAI-048

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-5564-1	M-BF-01	Solid	09/04/12 13:30	09/05/12 08:20
490-5564-2	M-BF-02	Solid	09/04/12 13:40	09/05/12 08:20
490-5564-3	M-BF-03	Solid	09/04/12 13:35	09/05/12 08:20
490-5564-4	M-BF-04	Solid	09/04/12 13:45	09/05/12 08:20
490-5564-5	M-UST-01	Solid	09/04/12 14:30	09/05/12 08:20
490-5564-6	M-UST-DGW-01	Solid	09/04/12 14:40	09/05/12 08:20

IMAGED 10/19/2012

Case Narrative

Job ID: 490-5564-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-5564-1

Comments
No additional comments.

Receipt
The samples were received on 9/5/2012 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.9° C.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

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Definitions/Glossary

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

IMAGED 10/19/2012

Client Sample Results

lient: Hart & Hickman, PC
roject/Site: Momentum Chevrolete Tulsa

TestAmerica Job ID: 490-5564-1
SDG: SAI-048

Client Sample ID: M-BF-01
Date Collected: 09/04/12 13:30
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-1
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00300		mg/Kg	☼	09/05/12 11:41	09/05/12 16:31	1
Ethylbenzene	ND		0.00300		mg/Kg	☼	09/05/12 11:41	09/05/12 16:31	1
Xylenes, Total	ND		0.00751		mg/Kg	☼	09/05/12 11:41	09/05/12 16:31	1
Toluene	ND		0.00300		mg/Kg	☼	09/05/12 11:41	09/05/12 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/05/12 11:41*	*09/05/12 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*09/05/12 11:41*	*09/05/12 16:31*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*09/05/12 11:41*	*09/05/12 16:31*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*09/05/12 11:41*	*09/05/12 16:31*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		24.4		mg/Kg	☼	09/05/12 10:40	09/05/12 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*112*		*70 - 130*	*09/05/12 10:40*	*09/05/12 20:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/05/12 11:25	1

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Client Sample Results

Client Sample ID: M-BF-02
Date Collected: 09/04/12 13:40
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-2
Matrix: Solid
Percent Solids: 92.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00166		mg/Kg	☼	09/05/12 11:41	09/05/12 17:03	1
Ethylbenzene	ND		0.00166		mg/Kg	☼	09/05/12 11:41	09/05/12 17:03	1
Xylenes, Total	ND		0.00416		mg/Kg	☼	09/05/12 11:41	09/05/12 17:03	1
Toluene	ND		0.00166		mg/Kg	☼	09/05/12 11:41	09/05/12 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	104		70 - 130	09/05/12 11:41	09/05/12 17:03	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130	09/05/12 11:41	09/05/12 17:03	1
Toluene-d8 (Surr)	99		70 - 130	09/05/12 11:41	09/05/12 17:03	1
Dibromofluoromethane (Surr)	96		70 - 130	09/05/12 11:41	09/05/12 17:03	1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		25.6		mg/Kg	☼	09/05/12 10:40	09/05/12 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	97		70 - 130	09/05/12 10:40	09/05/12 21:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			09/05/12 11:25	1

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Client Sample Results

Client Sample ID: M-BF-03
Date Collected: 09/04/12 13:35
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-3
Matrix: Solid
Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00188		mg/Kg	☼	09/05/12 11:41	09/05/12 17:34	1
Ethylbenzene	ND		0.00188		mg/Kg	☼	09/05/12 11:41	09/05/12 17:34	1
Xylenes, Total	ND		0.00471		mg/Kg	☼	09/05/12 11:41	09/05/12 17:34	1
Toluene	0.00214		0.00188		mg/Kg	☼	09/05/12 11:41	09/05/12 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*09/05/12 11:41*	*09/05/12 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*09/05/12 11:41*	*09/05/12 17:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*09/05/12 11:41*	*09/05/12 17:34*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*09/05/12 11:41*	*09/05/12 17:34*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		24.8		mg/Kg	☼	09/05/12 10:40	09/05/12 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*98*		*70 - 130*	*09/05/12 10:40*	*09/05/12 22:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			09/05/12 11:25	1

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Client Sample Results

Client Sample ID: M-BF-04
Date Collected: 09/04/12 13:45
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-4
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00180		mg/Kg	☼	09/05/12 11:41	09/05/12 18:04	1
Ethylbenzene	0.00756		0.00180		mg/Kg	☼	09/05/12 11:41	09/05/12 18:04	1
Xylenes, Total	0.0448		0.00450		mg/Kg	☼	09/05/12 11:41	09/05/12 18:04	1
Toluene	0.00416		0.00180		mg/Kg	☼	09/05/12 11:41	09/05/12 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:04*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:04*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:04*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		28.0		mg/Kg	☼	09/05/12 10:40	09/05/12 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*99*		*70 - 130*	*09/05/12 10:40*	*09/05/12 22:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10		%			09/05/12 11:25	1

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Client Sample Results

lient: Hart & Hickman, PC
. roject/Site: Momentum Chevrolete Tulsa

TestAmerica Job ID: 490-5564-1
SDG: SAI-048

Client Sample ID: M-UST-01
Date Collected: 09/04/12 14:30
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-5
Matrix: Solid
Percent Solids: 89.7

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00159		mg/Kg	☼	09/05/12 11:41	09/05/12 18:35	1
Ethylbenzene	ND		0.00159		mg/Kg	☼	09/05/12 11:41	09/05/12 18:35	1
Xylenes, Total	ND		0.00397		mg/Kg	☼	09/05/12 11:41	09/05/12 18:35	1
Toluene	0.00214		0.00159		mg/Kg	☼	09/05/12 11:41	09/05/12 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:35*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:35*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*	*09/05/12 11:41*	*09/05/12 18:35*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		21.9		mg/Kg	☼	09/05/12 10:40	09/05/12 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*109*		*70 - 130*	*09/05/12 10:40*	*09/05/12 23:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			09/05/12 11:25	1

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Client Sample Results

Client Sample ID: M-UST-DGW-01
Date Collected: 09/04/12 14:40
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-6
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00182		mg/Kg	☼	09/05/12 11:41	09/05/12 19:06	1
Ethylbenzene	ND		0.00182		mg/Kg	☼	09/05/12 11:41	09/05/12 19:06	1
Xylenes, Total	ND		0.00456		mg/Kg	☼	09/05/12 11:41	09/05/12 19:06	1
Toluene	ND		0.00182		mg/Kg	☼	09/05/12 11:41	09/05/12 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/05/12 11:41*	*09/05/12 19:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*09/05/12 11:41*	*09/05/12 19:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*09/05/12 11:41*	*09/05/12 19:06*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*	*09/05/12 11:41*	*09/05/12 19:06*	*1*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		25.7		mg/Kg	☼	09/05/12 10:40	09/05/12 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*121*		*70 - 130*	*09/05/12 10:40*	*09/05/12 23:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89		0.10		%			09/05/12 11:25	1

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QC Sample Results

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 490-5532-A-5-C MS
Matrix: Solid
Analysis Batch: 17610

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00762		0.0605	0.07829		mg/Kg	¤	117	31 - 143
Ethylbenzene	ND		0.0605	0.06679		mg/Kg	¤	108	23 - 161
Xylenes, Total	ND		0.182	0.1975		mg/Kg	¤	109	25 - 162
Toluene	0.00749		0.0605	0.07701		mg/Kg	¤	115	30 - 155

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

Lab Sample ID: 490-5532-A-5-D MSD
Matrix: Solid
Analysis Batch: 17610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00762		0.0650	0.08453		mg/Kg	¤	118	31 - 143	8	50
Ethylbenzene	ND		0.0650	0.07314		mg/Kg	¤	110	23 - 161	9	50
Xylenes, Total	ND		0.195	0.2157		mg/Kg	¤	111	25 - 162	9	50
Toluene	0.00749		0.0650	0.08319		mg/Kg	¤	116	30 - 155	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-17610/6
Matrix: Solid
Analysis Batch: 17610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			09/05/12 12:24	1
Ethylbenzene	ND		0.00200		mg/Kg			09/05/12 12:24	1
Xylenes, Total	ND		0.00500		mg/Kg			09/05/12 12:24	1
Toluene	ND		0.00200		mg/Kg			09/05/12 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/05/12 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*09/05/12 12:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/05/12 12:24*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/05/12 12:24*	*1*

Lab Sample ID: LCS 490-17610/3
Matrix: Solid
Analysis Batch: 17610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05470		mg/Kg		109	75 - 127

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QC Sample Results

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-17610/3
Matrix: Solid
Analysis Batch: 17610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.0500	0.05522		mg/Kg		110	80 - 134
Xylenes, Total	0.150	0.1649		mg/Kg		110	80 - 137
Toluene	0.0500	0.05852		mg/Kg		117	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 490-17610/4
Matrix: Solid
Analysis Batch: 17610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05381		mg/Kg		108	75 - 127	2	50
Ethylbenzene	0.0500	0.05350		mg/Kg		107	80 - 134	3	50
Xylenes, Total	0.150	0.1588		mg/Kg		106	80 - 137	4	50
Toluene	0.0500	0.05489		mg/Kg		110	80 - 132	6	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 490-17658/1-A
Matrix: Solid
Analysis Batch: 17745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		25.0		mg/Kg		09/05/12 10:40	09/05/12 15:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*110*		*70 - 130*	*09/05/12 10:40*	*09/05/12 15:44*	*1*

Lab Sample ID: LCS 490-17658/2-A
Matrix: Solid
Analysis Batch: 17745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	500	461.7		mg/Kg		92	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl (Surr)	*113*		*70 - 130*

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QC Sample Results

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Lab Sample ID: LCSD 490-17658/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17745 — **Prep Batch: 17658**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	500	491.6		mg/Kg		98	75 - 125	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*117*		*70 - 130*

Lab Sample ID: 490-5414-B-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17745 — **Prep Batch: 17658**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	110		568	690.4		mg/Kg		102	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl (Surr)	*114*		*70 - 130*

Lab Sample ID: 490-5414-B-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17745 — **Prep Batch: 17658**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C12	110		566	679.3		mg/Kg		101	75 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*100*		*70 - 130*

Method: Moisture - Percent Moisture

Lab Sample ID: 490-5564-1 DU — **Client Sample ID: M-BF-01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 17683

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	93		92		%		0.3	20

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QC Association Summary

GC/MS VOA

Prep Batch: 17526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5532-A-5-C MS	Matrix Spike	Total/NA	Solid	5035	
490-5532-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5532-A-5-C MS	Matrix Spike	Total/NA	Solid	8260B	17526
490-5532-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	17526
490-5564-1	M-BF-01	Total/NA	Solid	8260B	17693
490-5564-2	M-BF-02	Total/NA	Solid	8260B	17693
490-5564-3	M-BF-03	Total/NA	Solid	8260B	17693
490-5564-4	M-BF-04	Total/NA	Solid	8260B	17693
490-5564-5	M-UST-01	Total/NA	Solid	8260B	17693
490-5564-6	M-UST-DGW-01	Total/NA	Solid	8260B	17693
LCS 490-17610/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-17610/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-17610/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5564-1	M-BF-01	Total/NA	Solid	5035	
490-5564-2	M-BF-02	Total/NA	Solid	5035	
490-5564-3	M-BF-03	Total/NA	Solid	5035	
490-5564-4	M-BF-04	Total/NA	Solid	5035	
490-5564-5	M-UST-01	Total/NA	Solid	5035	
490-5564-6	M-UST-DGW-01	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 17658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5414-B-1-E MS	Matrix Spike	Total/NA	Solid	TX 1005_S_Prep	
490-5414-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	TX 1005_S_Prep	
490-5564-1	M-BF-01	Total/NA	Solid	TX 1005_S_Prep	
490-5564-2	M-BF-02	Total/NA	Solid	TX 1005_S_Prep	
490-5564-3	M-BF-03	Total/NA	Solid	TX 1005_S_Prep	
490-5564-4	M-BF-04	Total/NA	Solid	TX 1005_S_Prep	
490-5564-5	M-UST-01	Total/NA	Solid	TX 1005_S_Prep	
490-5564-6	M-UST-DGW-01	Total/NA	Solid	TX 1005_S_Prep	
LCS 490-17658/2-A	Lab Control Sample	Total/NA	Solid	TX 1005_S_Prep	
LCSD 490-17658/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005_S_Prep	
MB 490-17658/1-A	Method Blank	Total/NA	Solid	TX 1005_S_Prep	

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QC Association Summary

GC Semi VOA (Continued)

Analysis Batch: 17745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5414-B-1-E MS	Matrix Spike	Total/NA	Solid	TX 1005	17658
490-5414-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	TX 1005	17658
490-5564-1	M-BF-01	Total/NA	Solid	TX 1005	17658
490-5564-2	M-BF-02	Total/NA	Solid	TX 1005	17658
490-5564-3	M-BF-03	Total/NA	Solid	TX 1005	17658
490-5564-4	M-BF-04	Total/NA	Solid	TX 1005	17658
490-5564-5	M-UST-01	Total/NA	Solid	TX 1005	17658
490-5564-6	M-UST-DGW-01	Total/NA	Solid	TX 1005	17658
LCS 490-17658/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	17658
LCSD 490-17658/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	17658
MB 490-17658/1-A	Method Blank	Total/NA	Solid	TX 1005	17658

General Chemistry

Analysis Batch: 17683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5564-1	M-BF-01	Total/NA	Solid	Moisture	
490-5564-1 DU	M-BF-01	Total/NA	Solid	Moisture	
490-5564-2	M-BF-02	Total/NA	Solid	Moisture	
490-5564-3	M-BF-03	Total/NA	Solid	Moisture	
490-5564-4	M-BF-04	Total/NA	Solid	Moisture	
490-5564-5	M-UST-01	Total/NA	Solid	Moisture	
490-5564-6	M-UST-DGW-01	Total/NA	Solid	Moisture	

IMAGED 10/19/2012

Lab Chronicle

Client Sample ID: M-BF-01

Date Collected: 09/04/12 13:30
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-1

Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17693	09/05/12 11:41	TP	TAL NSH
Total/NA	Analysis	8260B		1	17610	09/05/12 16:31	KK	TAL NSH
Total/NA	Prep	TX 1005_S_Prep			17658	09/05/12 10:40	TF	TAL NSH
Total/NA	Analysis	TX 1005		1	17745	09/05/12 20:14	KH	TAL NSH
Total/NA	Analysis	Moisture		1	17683	09/05/12 11:25	RS	TAL NSH

Client Sample ID: M-BF-02

Date Collected: 09/04/12 13:40
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-2

Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17693	09/05/12 11:41	TP	TAL NSH
Total/NA	Analysis	8260B		1	17610	09/05/12 17:03	KK	TAL NSH
Total/NA	Prep	TX 1005_S_Prep			17658	09/05/12 10:40	TF	TAL NSH
Total/NA	Analysis	TX 1005		1	17745	09/05/12 21:40	KH	TAL NSH
Total/NA	Analysis	Moisture		1	17683	09/05/12 11:25	RS	TAL NSH

Client Sample ID: M-BF-03

Date Collected: 09/04/12 13:35
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-3

Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17693	09/05/12 11:41	TP	TAL NSH
Total/NA	Analysis	8260B		1	17610	09/05/12 17:34	KK	TAL NSH
Total/NA	Prep	TX 1005_S_Prep			17658	09/05/12 10:40	TF	TAL NSH
Total/NA	Analysis	TX 1005		1	17745	09/05/12 22:09	KH	TAL NSH
Total/NA	Analysis	Moisture		1	17683	09/05/12 11:25	RS	TAL NSH

Client Sample ID: M-BF-04

Date Collected: 09/04/12 13:45
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-4

Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17693	09/05/12 11:41	TP	TAL NSH
Total/NA	Analysis	8260B		1	17610	09/05/12 18:04	KK	TAL NSH
Total/NA	Prep	TX 1005_S_Prep			17658	09/05/12 10:40	TF	TAL NSH
Total/NA	Analysis	TX 1005		1	17745	09/05/12 22:37	KH	TAL NSH
Total/NA	Analysis	Moisture		1	17683	09/05/12 11:25	RS	TAL NSH

IMAGED 10/19/2012

Lab Chronicle

lient: Hart & Hickman, PC
. roject/Site: Momentum Chevrolete Tulsa

TestAmerica Job ID: 490-5564-1
SDG: SAI-048

Client Sample ID: M-UST-01

Date Collected: 09/04/12 14:30
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-5

Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17693	09/05/12 11:41	TP	TAL NSH
Total/NA	Analysis	8260B		1	17610	09/05/12 18:35	KK	TAL NSH
Total/NA	Prep	TX 1005_S_Prep			17658	09/05/12 10:40	TF	TAL NSH
Total/NA	Analysis	TX 1005		1	17745	09/05/12 23:05	KH	TAL NSH
Total/NA	Analysis	Moisture		1	17683	09/05/12 11:25	RS	TAL NSH

Client Sample ID: M-UST-DGW-01

Date Collected: 09/04/12 14:40
Date Received: 09/05/12 08:20

Lab Sample ID: 490-5564-6

Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			17693	09/05/12 11:41	TP	TAL NSH
Total/NA	Analysis	8260B		1	17610	09/05/12 19:06	KK	TAL NSH
Total/NA	Prep	TX 1005_S_Prep			17658	09/05/12 10:40	TF	TAL NSH
Total/NA	Analysis	TX 1005		1	17745	09/05/12 23:34	KH	TAL NSH
Total/NA	Analysis	Moisture		1	17683	09/05/12 11:25	RS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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IMAGED 10/19/2012

Method Summary

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Certification Summary

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	09-30-12
New Hampshire	NELAC	1	2963	10-09-12
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

IMAGED 10/19/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT F(

Cooler Received/Opened On 9/5/2012@ 8:20

1. Tracking # 4440 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 1.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 Front

5. Were the seals Intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers Inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) JH

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA - Soils

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence # N/A

I certify that I unloaded the cooler and answered questions 7-14 (intial) EF

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EF

17. Were custody papers properly filled out (Ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EF

I certify that I attached a label with the unique LIMS number to each container (Intial) EF

21. Were there Non-Conformance Issues at login? YES.(NO) Was a PIPE generated? YES..(NO).#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

9/6/2012

IMAGED 10/19/2012

Login Sample Receipt Checklist

Client: Hart & Hickman, PC

Job Number: 490-5564-1
SDG Number: SAI-048

Login Number: 5564
List Number: 1
Creator: Ford, Easton

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MICHAEL DALE	Lab PM: Hayes, Ken	Carrier Tracking No(s):	COC No: 490-3335-1418.12
Client Contact: Nathan Oleary	Phone: 918-828-2424 /CRA	E-Mail: ken.hayes@testamericainc.com		Page: Page 12 of 13
Company: Hart & Hickman, PC				Job #:
Address: 2923 S Tryon Street Suite 100	Due Date Requested:			
City: Charlotte	TAT Requested (days): 24-Hour			
State, Zip: NC, 28203				
Phone: (204) 586 0007	PO #: Purchase Order not required SAI-018			
Email: noleary@harthickman.com	WO #:			
Project Name: Default - NC & SC	Project #: 49000951			
Site: Momentum Chevrolet Tulsa	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TX_1005 - All-Ranges C6 - C12 GRO	Okla_GRO - Oklahoma-GRO (C6-C10)	8260B - BTEX Volatiles	8260B - BTEX Volatiles	Moisture - Percent Moisture/Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	E	E	F	N		
M-BF-01	9/4/12	13:30	C	Solid	N	N	X	X	X	X	X		24-Hour TAT on
M-BF-02		13:40	C	Solid			X	X	X	X	X		all samples
M-BF-03		13:35	C	Solid			X	X	X	X	X		
M-BF-04		13:45	C	Solid			X	X	X	X	X		
M-UST-01		14:30	G	Solid			X	X	X	X	X		
M-UST-DSW-01		14:40	G	Solid			X	X	X	X	X		
				Solid									
				Solid									
				Solid									
				Solid									
				Solid									

Loc: 490
5564

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/4/12 / 16:30	CRA	[signature]	9/4/12 / 1630	H&H
[signature]	9/4/12 / 1640	H&H	[signature]	9-5-12 08:20	TAN

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

IMAGED 10/19/2012

IMAGED 5/30/2007

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION

Final Closure Report

PSTD Reviewer Philip Hudnall Approve [X] Deny [ ] Date 5-4-07

1. CASE NUMBER SOR-3163 Submitted to (PSTD P.E.A.): Philip Hudnall
   FACILITY NUMBER 72-10839 To Fulfill Purchase Order: WP-011966

2. Facility Name Riverside Chevrolet
   Contact Person/Phone No. Jim Finley / (918) 447-7309
   Street Address, City, County 707 West 51 St , Tulsa, OK , Tulsa

3. Owner/Operator Riverside Chevrolet
   Contact Person/Phone No. Jim Finley (918) 447-7309
   Address, City, State, Zip 707 West 51 St., Tulsa, OK 74105

4. I certify that all work has been done in a good and workmanlike fashion according to workplan/purchase order approved by the Petroleum Storage Tank Division.

   Remediation Consultant's Signature Louise P. Cope Date 04/02/07
   PSTD License Number: 150 Date: 04/02/07
   Remediation Consultant and Firm Down-To-Earth Environmental Services
   Phone Numbers: Voice: (405) 262-6909 Fax: (405) 262-6909 Pager/Cell: (405) 262-4668
   E-Mail Address: dcope8 @cox.net

   Consulting Firm Principal Signature Louise P. Cope

5. List the wells that were:
   Overdrilled & cement grouted:

   Pulled & plugged: MW-01 SeePhotos

   Casing cement grouted in place (Attach OWRB Variance):

   Other (Describe):

   Not found (Describe efforts to find and possibly what might have happened to the well): Not Applicable

6. Has all decommissioned material (soil, water, casing, monuments, pads, etc), soil piles and visqueen been removed and properly disposed? If not, attach an explination.

   Yes[ ] No[X] one (1) drum of soil is awaiting disposal pending scheduling of removal per Approved Purchase Order WP-012207

7. Attach the Oklahoma Water Resources Board's (OWRB) Multi-Purpose Completion Report – Monitoring Wells. Well identification, plugging data and driller's certification must be completed.

8. Briefly describe the decommissioning of all surface equipment.
   No equipment

9. Briefly describe the decommissioning of all pipe runs/trenches.
   No Applicable

2007 MAY -2 PM 4:27

IMAGED 5/30/2007

11. Were all utilities for installed remediation system properly disconnected and service discontinued? If not, attach an explanation.
Yes☐ No☐ N/A ☒

11. Were all state and local agencies properly notified regarding the termination of any permits they had issued? If not, attach an explanation. Yes☐ No☐ N/A ☒

12. List the name and phone number of the current property owner if different from the responsible party.
Same entity

List the name(s) and phone number(s) of all off-site property owners where monitoring wells and/or remediation equipment were decommissioned.
Not Applicable

13. List any monitoring wells, remediation equipment or soil piles that the current property owner wants to retain. OWRB OAC Rule 785:35-11-2(a) states "Monitoring wells...shall be plugged...within three days after completion of use...". Unless there is some other monitoring use for a monitoring well PSTD insists that all such wells be decommissioned.
None

If there is anything listed as no above, the current property owner and tank owner/operator (eligible party- EP) must sign below that they understand that work performed after the date of closure of this case will not be reimbursed by the Indemnity Fund. They must also understand that they are responsible for any associated liability and decommissioning of any monitoring wells according to the rules and regulations of the OWRB. If the EP of any adjacent case wants to retain any item listed above, they may sign on the EP line and list the appropriate case number.

C/O Riverside Chev. Date 4/17/07
Current Property Owner

C/O Riverside Chev Date 4/17/07
Tank Owner/Operator (Eligible Party)

None
Adjacent Case Number

IMAGED 5/30/2007

Exhibit 1. Site Location - Riverside Chevrolet

Scale: 1 Inch = 4,620 Feet **707 West 51 Street - Tulsa, OK 74107**

0 2310' 4620'

IMAGED 5/30/2007

Exhibit 2. Local Topographic Map

Riverside Chevrolet - 707 West 51 Street - Tulsa, Oklahoma 74107

Scale: 1 Inch = 1,320 Feet / 0.25 Mile

IMAGED 5/30/2007

Exhibit 3. Aerial Photograph

Scale: 1 Inch = 330 Feet Riverside Chevrolet

0 100yd

N

IMAGED 5/30/2007

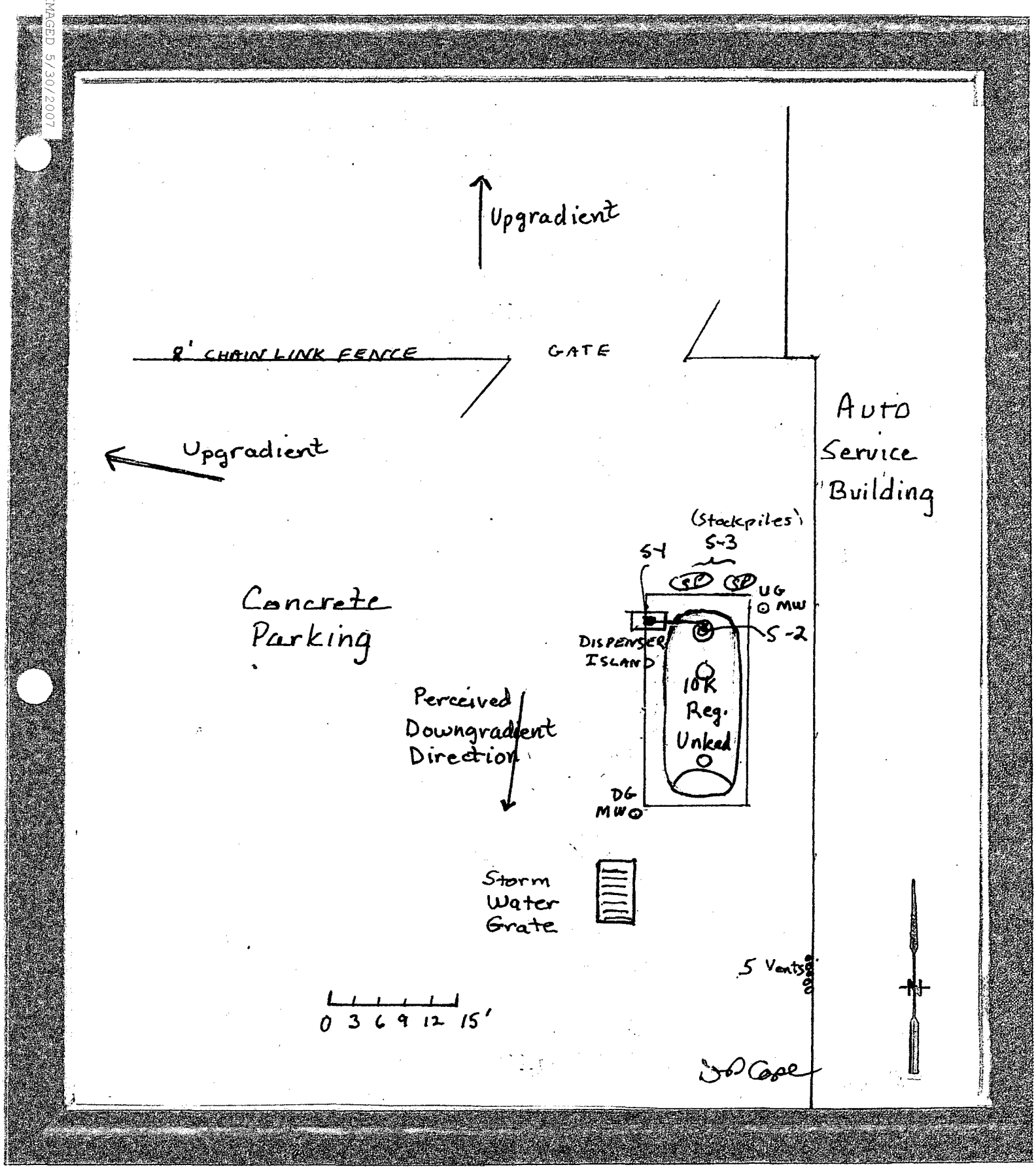
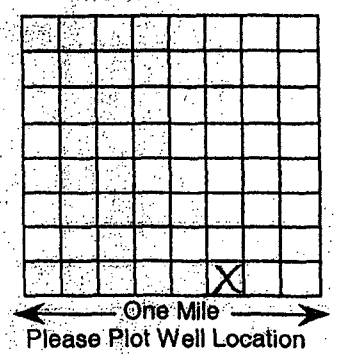


Exhibit 4. Site Map Sketch

Riverside Chevrolet UST System **Scale: 1 Inch = 15 Feet**

IMAGED 5/30/2007

N ☐ Ten Acres



MULTI-PURPOSE COMPLETION REPORT
MONITORING WELLS

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Do Not Write In This Space
Well Log ID Number _____

LEGAL DESCRIPTION

Do Not Write In This Space
____ ¼ ____ ¼ ____ ¼

of Sec. 26 Township 19 ☒ N ☐ S Range 12 ☐ WIM ☒ EIM ☐ ECM

Optional Information
Latitude _____ Longitude _____

Number of wells in 10 acre tract 1 Well No. (if applicable) MW1

County Tulsa Variance Request No. (if applicable) _____

Well Owner Riverside Chevrolet Phone _____

Address/City/State 707 W. 51st St. / Tulsa, OK Zip 74107

Finding Location 707 W. 51st St. in Tulsa, OK

TYPE OF WORK
- ☐ Geotechnical Boring
- ☐ Monitoring Well
- ☒ Plugging

USE OF WELL
- ☒ Site Assessment Observation
- ☐ Unsaturated Zone Monitoring
- ☐ Air Sparge
- ☐ Vapor Extraction
- ☐ Water Quality
- ☐ Recovery
- ☐ Other _____

NEW BORING OR WELL CONSTRUCTION DATA
An application for a variance must be requested and obtained before any changes are made to the minimum construction standards for any well.

Date Started _____ Date Completed _____

Hole Diameter _____ inches From _____ feet to _____ feet

Hole Diameter _____ inches From _____ feet to _____ feet

CASING RECORD:

Surface Pipe (Casing) Diameter _____ inches From _____ feet to _____ feet

Well Casing Diameter _____ inches From _____ feet to _____ feet

Well Casing Diameter _____ inches From _____ feet to _____ feet

SCREEN OR PERFORATION RECORD:

Type and Slot Size _____ From _____ feet to _____ feet

Type and Slot Size _____ From _____ feet to _____ feet

FILTER PACK:

Type and Size _____ From _____ feet to _____ feet

Type and Size _____ From _____ feet to _____ feet

mw-multi

IMAGED 5/30/2007

S L:
T : of Surface Seal _____ From _____ feet to _____ feet
T : of Annular Seal _____ From _____ feet to _____ feet
T : of Filter Pack Seal _____ From _____ feet to _____ feet

TYPE OF COMPLETION: ☐ Above Ground ☐ Flush Mounted ☐ Pitless Adapter

PLUGGING DATA

☒ Non-Contaminated ☐ Contaminated Date Plugged 3/5/07

Backfilled From 0 feet to .5 feet with Concrete

Grouted From .5 feet to 2 feet with Bentonite

Cement Grouted From 2 feet to 15 feet Tremied? ☐ Yes ☒ No

LITHOLOGY DESCRIPTION

MATERIAL (indicate with a / if a zone is saturated)	ENCOUNTERED FROM (Feet)	ENCOUNTERED TO (Feet)	MATERIAL (indicate with a / if a zone is saturated)	ENCOUNTERED FROM (Feet)	ENCOUNTERED TO (Feet)

HYDROLOGIC DATA

Static water level encountered _____ feet below land surface. Approximate Yield _____ GPM _____

Water level of _____ feet below land surface after _____ hours pumping.

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Firm Name Whitetail Drilling, LLC D/PC No. 0463

Operator Name Andy Barrett OP No. 1172

Address 3301 NE 50th St. Oklahoma City, Ok 73121 Phone (405)427-8800

Andy Barr
Signature Date 3/12/07

ISOTEK, L.L.C.

4901 West Reno, Suite 200
Oklahoma City, OK 73127
BUS: (405) 948-8880
FAX: (405) 948-6015

IMAGED 5/30/2007

CHAIN OF CUSTODY

COMPANY NAME			ANALYSIS REQUESTED				P.O. #	
Econ. To Earth Environmental							WP-011966	
PROJECT NO.	PROJECT NAME						INVOICE #	
SOR-3163	Riverside Chevrolet						RIV 11966	
SAMPLER (Signature)							NUMBER OF CONTAINERS	
SAMPLE	DATE	TIME	SAMPLE IDENTIFICATION	BTEX	TPH-GRO	Total Pb		REMARKS
	03/05/07	2:00pm	MW-01 Composite Drum From Well Plugging Overdrilling	✓	✓	✓	ONE	Iced, then refrigerated from severance until delivery to Isotek lab.
							1	

REPORT TO:	INVOICE TO:	PHONE:	TOTAL NUMBER OF CONTAINERS	PRESERVATION METHOD USED
Denise P Cope	Econ. To Earth Environmental P.O. Box 1225 El Reno, OK 73036	(405) 262-6909 FAX (405) 262-6909 CALL FIRST	ONE	ICED X OTHER Temp 1.2°C

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Denise P Cope	03/12/07 4:58pm				
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR LAB BY:
				3/12/07 4:58	

IMAGED 5/30/2007

ISOTEK, L.L.C.

LABORATORY SERVICES

4901 West Reno, Suite 200, Oklahoma City, OK 73127-6320
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

MARCH 14, 2007

Laboratory Report No. 271687

DOWN-TO-EARTH ENVIRONMENTAL
P. O. BOX 1225
EL RENO, OK. 73036

PROJECT NAME:	RIVERSIDE CHEVROLET
PROJECT NO.:	SOR-3163
SAMPLE ID:	MW-01 COMPOSITE DRUM
SAMPLE MATRIX:	SOIL
DATE SAMPLED:	MARCH 5, 2007
DATE RECEIVED:	MARCH 12, 2007
TEMPERATURE:	1.2 °C
DATE ANALYZED:	MARCH 13, 2007
TIME ANALYZED:	14:45 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	ANALYTICAL RESULTS	
8021 B	EPA	5 ug/kg	BENZENE	ND	
8021 B	EPA	5 ug/kg	TOLUENE	ND	
8021 B	EPA	5 ug/kg	ETHYLBENZENE	ND	
8021 B	EPA	5 ug/kg	TOTAL XYLENES	ND	
8021 B	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	108.9	%
8015 M	ODEQ	1 mg/kg	Volatile TPH (Gasoline Range Organics)	ND	
7420	EPA	3 mg/kg	Total Lead	ND	

mg/kg	Milligrams per Kilogram, equivalent to parts per million.
ug/kg	Micrograms per Kilogram, equivalent to parts per billion.
ND	None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Certified By:

IMAGED 5/30/2007

ISOTEK, L.L.C.
4901 W. RENO, SUITE 200
OKLAHOMA CITY, OK 73127

BTEX QA/QC REPORT

March 13, 2007

Instrument: **HP 5890(2)** **Matrix: Soil**
Sample: **271695** **Run number:**

	Spike Val	Recovery	Dup. Recvy.	% Recvy.	ean +/- 3 s	% Diff.	mean +/- 3 sd
Benzene	200.000	190.040	188.540	95.020	accept	0.792	accept
Toluene	200.000	194.453	194.500	97.227	accept	-0.024	accept
Ethylbenzene	200.000	205.504	201.300	102.752	accept	2.067	accept
Total Xylenes	600.000	606.330	598.403	101.055	accept	1.316	accept
Naphthalene	200.000	201.403	199.434	100.702	accept	0.982	accept
TFT (spike)	200.000	201.430	-	100.72	accept		
TFT (duplicate)		200.450	-	100.23	accept		
TPH	2000	1922	1986	96.10	accept	-3.275	accept

Chemist: **RK**

Date: **03/13/07**

IMAGED 5/30/2007

ISOTEK, L.L.C.

ICV/CCV REPORT

03/13/07

HP 5890(2)

VENDOR: Supelco
CATALOG NO.: 47578-U
LOT NO.: LB06116
EXP DATE: 38572

	DATE	DATE
	3/13/07	3/13/07
AMOUNT (ng)	200	200
	ICV	CCV
Benzene	198.340	190.404
Toluene	206.400	190.403
Ethylbenzene	189.430	193.504
Total Xylenes	588.540	568.400
Naphthalene	201.434	210.403
TFT	192.404	194.403
TPH GRO	2035	2070
Int Run #		

	ICV ucl	ICV uwl	ICV lwl	ICV lcl	mean +/- 3 sd	Amount Recovered	Percent Recovery
Benzene	1661.764	1148.826	-902.930	-1415.869	accept	198.340	99.17
Toluene	111.865	106.820	86.639	81.594	accept	206.400	103.20
Ethylbenzene	110.898	105.921	86.016	81.039	accept	189.430	94.72
Total Xylenes	110.951	106.291	87.652	82.992	accept	588.540	98.09
Naphthalene	113.427	109.257	92.574	88.404	accept	201.434	100.72
TFT	117.806	111.453	86.040	79.687	accept	192.404	96.20
TPH	122.742	114.719	82.626	74.602	accept	2,035.4	101.77

	CCV ucl	CCV uwl	CCV lwl	CCV lcl	mean +/- 3 sd	Amount Recovered	Percent Recovery
Benzene	117.699	110.834	83.376	76.511	accept	190.404	95.20
Toluene	112.523	107.481	87.309	82.266	accept	190.403	95.20
E. benzene	112.938	107.522	85.861	80.445	accept	193.504	96.75
Tot Xylenes	109.741	105.770	89.889	85.919	accept	568.400	94.73
Naphthalen	114.463	109.334	88.816	83.687	accept	210.403	105.20
TFT	117.806	111.453	86.040	79.687	accept	194.403	97.20
TPH	125.505	116.892	82.441	73.828	accept	2070.4	103.52

Date: 3/13/07 **Analyst:** R.K.

IMAGED 5/30/2007

ISOTEK, L.L.C.

BTEX CALIBRATION REPORT

Date: 03/13/07

HP 5890(2)

VENDOR: SUPELCO
CATALOG NO.: 47578-U
LOT NO.: LB17135
EXP DATE: 1/1/09

	CALIB DATE	CALIB DATE	CALIB DATE	CALIB DATE	CALIB DATE
	2/28/07	3/8/07	3/11/07	3/12/07	3/13/07
AMOUNT (ng)	**20**	**100**	**200**	**400**	**800**
Int. Run #					
	AREA	**AREA**	**AREA**	**AREA**	**AREA**
Benzene	206,891	400,327	851,111	1,656,222	3,292,766
Toluene	207,585	418,352	842,716	1,601,154	3,321,778
Ethylbenzene	158,877	314,918	900,251	1,903,763	3,977,664
Total Xylenes	660,722	1,342,109	2,763,020	5,423,464	11,013,868
Naphthalene	54,981	108,550	203,874	436,957	944,022

	Amount Recovered	mean +/- 3 sd	Amount Recovered	mean +/- 3 sd	Amount Recovered	mean +/- 3 sd	Amount Recovered	mean +/- 3 sd	Amount Recovered	mean +/- 3 sd
TFT	46.780	Updated	77.223	Updated	135.607	Updated	175.092	Updated	246.580	accept
Benzene	19.430	Updated	86.694	Updated	204.135	Updated	333.016	Updated	808.145	accept
Toluene	18.504	Updated	76.849	Updated	203.080	Updated	333.829	Updated	788.908	accept
Ethylbenzene	20.605	Updated	78.433	Updated	204.250	Updated	380.566	Updated	768.340	accept
Total Xylenes	58.956	Updated	280.280	Updated	617.700	Updated	1,188.908	Updated	2,360.906	accept
Naphthalene	19.605	Updated	88.248	Updated	205.670	Updated	388.560	Updated	787.859	accept

	Percent Recovery	Percent Recovery	Percent Recovery	Percent Recovery	Percent Recovery
Benzene	**97.15**	**86.69**	**102.07**	**83.25**	**101.02**
Toluene	**92.52**	**76.85**	**101.54**	**83.46**	**98.61**
Ethylbenzene	**103.03**	**78.43**	**102.13**	**95.14**	**96.04**
Total Xylenes	**98.26**	**93.43**	**102.95**	**99.08**	**98.37**
Naphthalene	**98.03**	**88.25**	**102.84**	**97.14**	**98.48**
TFT	**93.56**	**77.22**	**90.40**	**87.55**	**98.63**

	slope	constant	r
Benzene	2.42E-04	0.00000	0.99930
Toluene	2.42E-04	0.00000	0.99896
Ethylbenzene	2.04E-04	0.00000	0.99830
Total Xylenes	2.18E-04	0.00000	0.99923
Naphthalene	8.63E-04	0.00000	0.99734

Analyst: **RK**

IMAGED 5/30/2007

ISOTEK, L.L.C.

GRO CALIBRATION CHECK REPORT

March 13, 2007

HP 5890 (2)

Calibration Date: **November 1, 2006**

STANDARD VENDOR: SUPELCO
STANDARD CAT. NO. 47578-U
STANDARD LOT NO.: LB17135
EXP. DATE: 1/1/09

Amount (ng):	**200**	**1000**	**2000**	**4000**	**8000**
Total Area:	8,779,200	37,917,000	7.739E+07	1.561E+08	2.834E+08
TFT Area:	2,460,840	4,885,692	6.934E+06	9.020E+06	1.153E+07
TPH Area:	**6,318,360**	**33,031,308**	**7.046E+07**	**1.471E+08**	**2.719E+08**

Blank Area:	16,168,248
TFT Area:	15,138,624
	1,029,624

slope	**constant**	**r**
2.8900E-05	0.00000	**0.99910**

			% Recovery
Cal check date:	**08/18/05**	**200 ng**	
Total area:	**99801000**	**1000 ng**	
TFT area:	**12045352**	**2000 ng**	
TPH area:	**294064648**	**4000 ng**	
TPH, ng:	**8,498 ng**	**8000 ng**	**x**

accept 106.23 %

Date: 03/13/07

Analyst: R.K.

IMAGED 5/30/2007

ISOTEK, L.L.C.

4901 West Reno, Suite 200
P. O. Box 271074
Oklahoma City, Oklahoma 73137-1074
(405) 948-8880

O.D.E.Q. Certification No. 9522

MARCH 14, 2007

DOWN-TO-EARTH ENVIRONMENTAL
P. O. BOX 1225
EL RENO, OK. 73036

QUALITY ASSURANCE REPORT

APPLICABLE TO SAMPLES 271687

PROJECT NAME: RIVERSIDE CHEVROLET, SOR-3163

PARAMETER	METHOD	DUPL % RECVRY	MTRX SPK % RECVRY	SPK DUP % DIFF	CONTROL % ACCURACY
TOTAL LEAD	7420	106.2	106.2	0.00	106.2

IMAGED 12/27/2006

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION

SUSPICION OF RELEASE REPORT

PSTD Reviewer Phillip Hudnall Approve [X] Deny [ ] Date 12-8-06

1. TRACKING NUMBER: **SOR-3163** Submitted to (PSTD P.E.A.): **Phillip Hudnall**
   FACILITY NUMBER: **72-10839** To Fulfill Purchase Order: **Pending (Conf. # 03782)**

2. Facility Name **Riverside Chevrolet**
   Contact Person/Phone No. / **Mr. Jim Finley, Service Manager. / (918) 447-7309**
   Street Address, City, Zip, County **707 West 51 Street, Tulsa, Tulsa Co., OK 74105**

3. Owner/Operator's Signature Jim Finley Date 11/2/06
   By signing above the Owner/Operator affirms that all of the information in this report is true and correct to the best of his/her knowledge.
   Owner/Operator **Riverside Chevrolet**
   Contact Person/Phone No. **Mr. Jim Finley, Service Manager / (918) 447-7309**
   Address, City, State, Zip **707 West 51 Street, Tulsa, OK 74105**

4. Remediation Consultant's Signature Denise Cope Date 12/04/06
   Remediation Consultant/Firm **Denise P. Cope Down-To-Earth Environmental Services**
   Phone Numbers: Voice:**(405) 262-6909** Fax:**(405) 262-6909** Cell:**(405) 262-4668**

   E-Mail Address: **d.p.cope@netzero.net**
   PSTD License Number: **150** Expiration Date: **12/31/07**

5. Describe the event(s) that caused the suspicion of a release. **Soil sample during product line closure and upgrade.**

6. Was a test performed on any parts of the system (tanks, piping, etc.) . **Yes** No If yes, please describe the test and attach a copy of any records for these tests. **Line Test**

7. Did the Petroleum Storage Tank Division (PSTD) require a site check? If so, please attach a copy of the approved purchase order that describe the scope of work. **Yes**

8. What were the results of the investigation? **MW-01 was installed to depth of 15' in gravelly coarse sand. Vapor emissions from core were very low. Faint hydrocarbon odor was detected from borehole prior to development. No sheen or free-phase product were observed in soils or groundwater.**

9. Did the analysis report chemicals of concern above action levels? **Yes** No
   If yes, go to the INITIAL ABATEMENT AND RESPONSE REPORT
   Consultant does not believe further investigation is required. All three soil samples analyzed Below Detection Limits for BTEX and TPH-GRO; the groundwater sample analyzed a minimal 0.013 mg/L for Benzene and 3 mg/L for TPH-GRO. This is a commercial area, paved parking and I-44 freeway is immediately downgradient to South. No residences downgradient for 0.5 mile

10. If above action levels was this reported to the OCC/PSTD within 24 hours. **Yes**

IMAGED 12/27/2006

Case Number: SOR-3163

Site Name: Riverside Chevrolet
Facility Number: 72-10839

Site Street Address: 707 West 51 Street
City Site is in (near): Tulsa, OK 74105

Consulting Firm: Down-To-Earth Environmental Services

Cons. Rep. On Site: Denise P. Cope, # 150
Cell Phone On Site: (405) 262-4668

Scheduled Activity: SOR MW Installation

Est. Time To Commence: 10/20/06 around 11:00 am

Est. Duration: 10/20/06 until finished about 3:00 pm
Sampling around 3:00 pm 10/20/06

Purchase Order Number: Submitted - Pending

PSTD PEA: David Poulsen

Cons. Proj. Manager: Denise P. Cope, #150

Date Of Activity: October 20-08, 2006

Additional Notes: OKIE Contacted.

If installing MWs, when will development occur: Rig developed on 10/20/06
if sufficient fluids are present. Otherwise, will hand-develop in one week.

IMAGED 12/27/2006

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION

Well or Boring Installation Report

PSTD Reviewer Phillip Hudnall Approve [X] Deny [ ]
Date 12-8-06

1. CASE NUMBER **SOR-3163** Submitted to: **Phillip Hudnall**
   FACILITY NUMBER **72-10839** To Fulfill Purchase Order: **T N 23414**

2. Facility Name **Riverside Chevrolet**
   Contact Person **Mr. James Finley, Service Mgr.** /Phone No. **(918) 447-7309**
   Street Address **707 West 51 Street, Tulsa, Tulsa County, OK 74105**

3. Owner/Operator **Riverside Chevrolet**
   Contact Person **Mr. James Finley, Service Mgr.** /Phone No. **(918) 447-7309**
   Address **707 West 51 Street, Tulsa, Tulsa County, OK 74105**

4. I certify that all work has been done in a good and workmanlike fashion according to
5. work plan / purchase order approved by the Petroleum Storage Tank Division.

   Remediation Consultant's Verification Signature Denise D. Cope
   Date 11-16-06
   PSTD License Number: **150** Expiration Date: **12/31/07**
   Remediation Consultant and Firm **Down-To-Earth Environmental Services**
   Phone Numbers: Voice: **(405) 262-6909** Fax: **262-6909** Cell: **(405) 262-4668**
   E-Mail Address: **d.p.cope@netzero.net**
   Consulting Firm Principal Signature Denise D. Cope

5. **Attach a copy of the approved scope of work.**

6. How much waste material (soil, rock, groundwater, decon. water, etc.) was generated during drilling operations? **Two drums of soil and one drum of purged fluids plus decon water remain on site pending application for disposal through submission of Purchase Order.** Thoroughly describe the disposition of those wastes. **As of date of monitoring well report compilation, three (3) drums still remain on site.** Does drum label information include contents, contact information and a date? **Yes, see photos that accompany this report, where drums exhibit appropriate labeling.** How many drums were left on site and how full is each drum? **Two (2) drums of soil (1.67 full) and one (1) drum of fluids (48-50 gallons full) remain on site**. What is the diameter of the boring(s)? **The wells were drilled with large diameter augers (11 inches) due to coarseness of sand and tendency to bind up the smaller-diameter augers.**

7. Thoroughly describe the development procedure for groundwater monitoring wells. How long was the well surged? Describe well's rate of recovery and monitor water parameters (pH, Temperature, Conductivity) until stabilized (less than 10% variance). Complete well development data table. **Groundwater was encountered around –8 feet originally, and recovered to –6.77 feet following hand surging (see photo) and rig development (photo). Well parameters were monitored with a Hanna Instruments pH/EC/TDS meter and Keck Dual Phase Interface Probe.**

IMAGED 12/27/2006

8. Describe any unexpected conditions or situations that may lead to a change order. **None**

9. Attach maps showing the newly installed boring(s) or well(s) along with any pre-existing borings and wells. Include a contoured groundwater map, if appropriate, and contoured plume maps for benzene and any other requested pollutants. Be sure to include all soil boring logs, monitoring well construction logs and OWRB well completion reports.

10. Attach all soil boring/monitoring well survey data (identify benchmark used).

Development Data Table **Date: 10/20/06**

MWS #	Total Depth	Depth To Water	Screen Interval	Turbidity (NTU's)	pH	Temp. ^{0}F	Cond. *u*mohs	Remarks
MW-01	**-16' ; caved to -14.1'**	**Initl = -8' Final = -6.77'**	**-5' to –15'**	**Visual – Initl =Cloudy Final=Clear**	**I =7.4 to F =7.7**	**I=57.1^{0}F To F=57.4^0**	**I = 91 To F = 84**	**TDS=119**

IMAGED 12/27/2006

Well Development Data Table **Date: 10/20/06**

SB/MW/ VMW No.	Total Depth	Impacted Zone Interval	Soil Sample Depth(s)	Drilling DTW	Completion DTW	Screened Interval
MW-01	**14.5'**	**-None**	**S-1 = 9.5'** **S-2 = 13'** **S-3 = 15'**	**- 8.0'**	**- 6.77'**	**-5' to –15'**
		-				
		-				
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IMAGED 12/27/2006

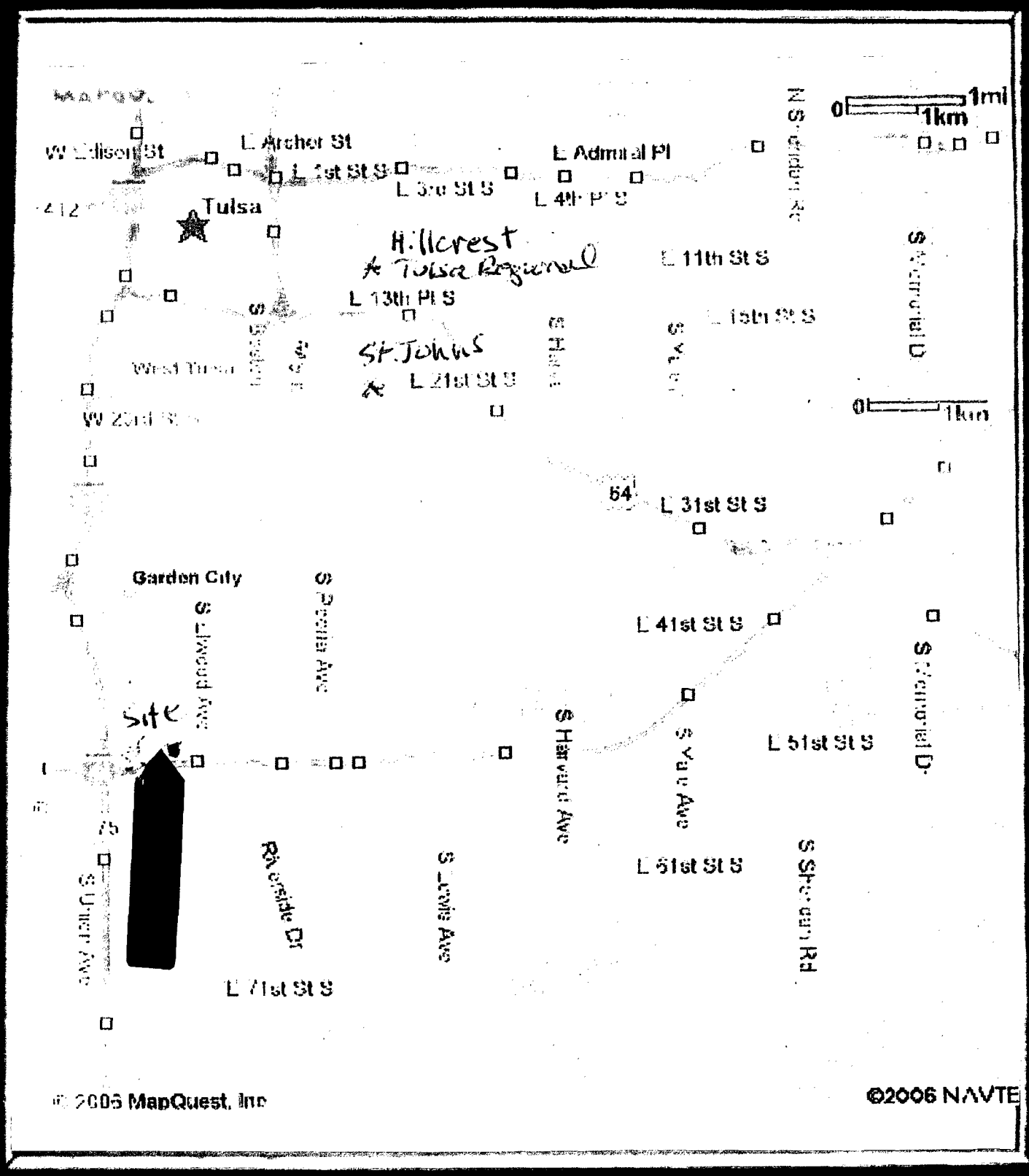


Exhibit 1. Site Location - Riverside Chevrolet

Scale: 1 Inch = 4,620 Feet **707 West 51 Street - Tulsa, OK 74107**

IMAGED 12/27/2006

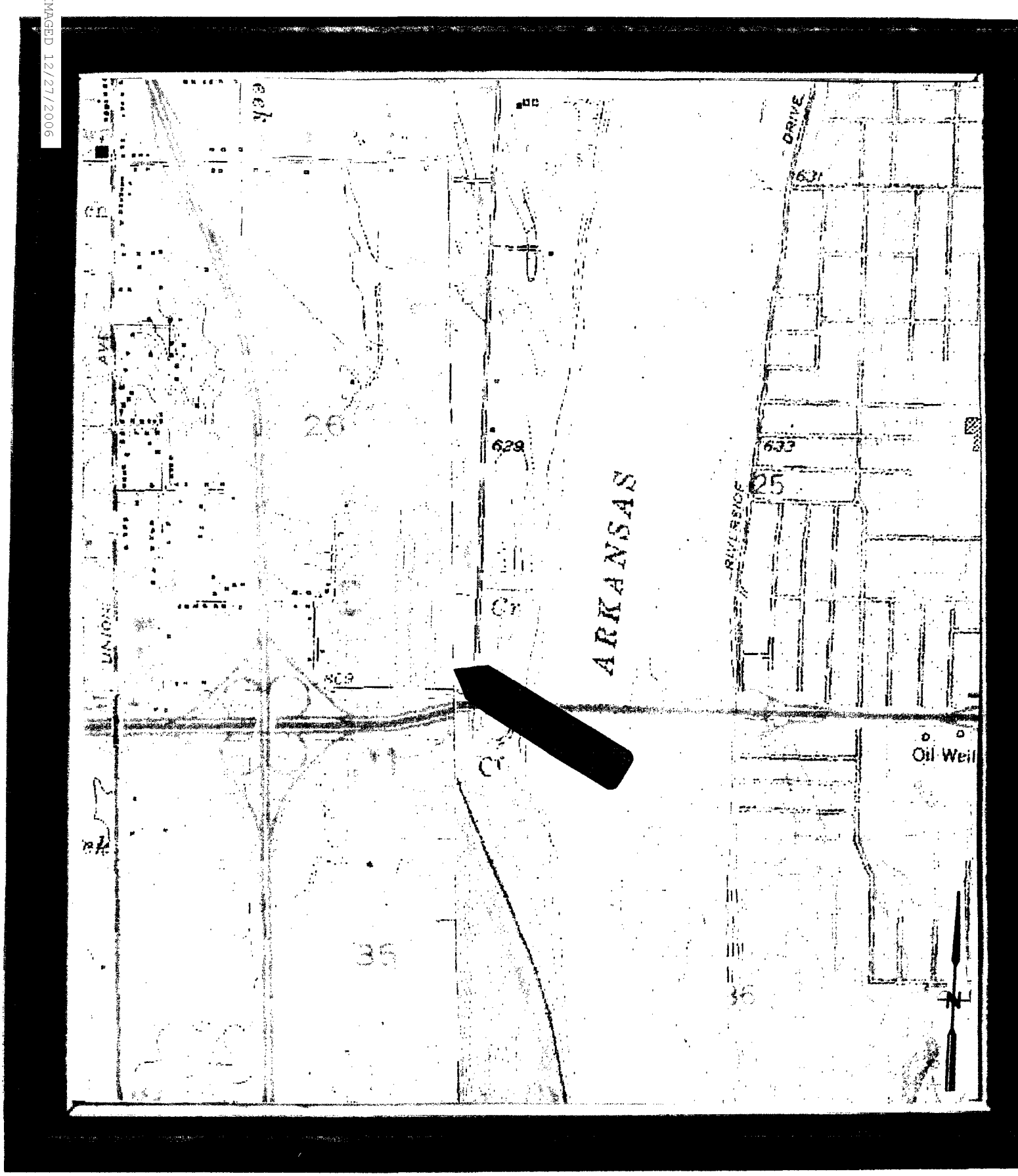


Exhibit 2. Local Topographic Map

Riverside Chevrolet - 707 West 51 Street - Tulsa, Oklahoma 74107

Scale: 1 Inch = 1,320 Feet / 0.25 Mile

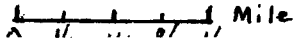


Exhibit 3. Aerial Photograph

Scale: 1 Inch = 330 Feet Riverside Chevrolet

0 100yd

N

IMAGED 12/27/2006

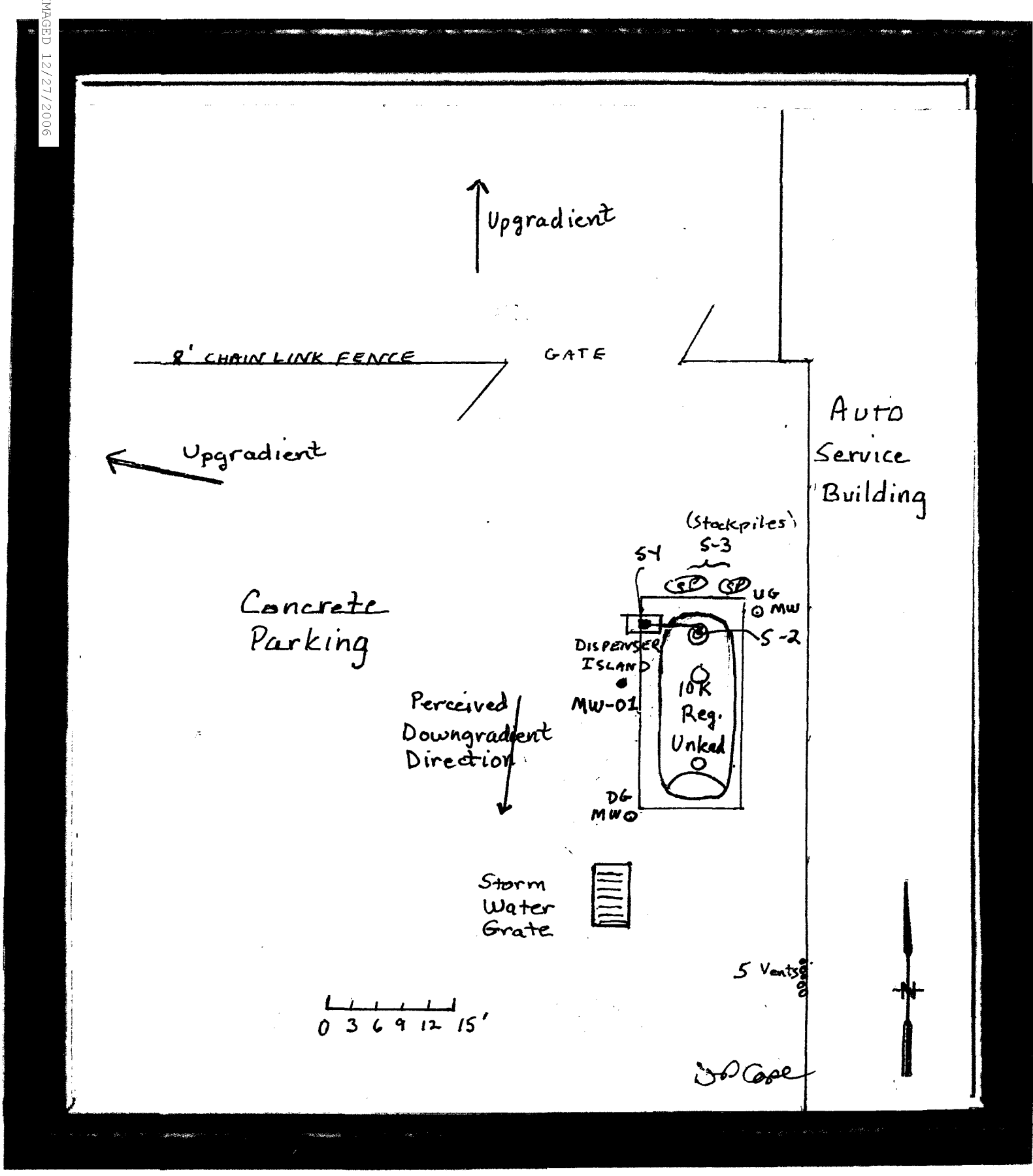


Exhibit 4. Site Map Sketch

Riverside Chevrolet UST System **Scale: 1 Inch = 15 Feet**

Photo No. 1.

Viewing East At Installation Activities For MW-01 Adjacent To UST Fueling System.

Photo No. 2 Aluminum Foil Covers Soil Core And Exhibits Test Sites For OrganicVapor Emissions.

Photo No. 3 Viewing Gravelly Coarse Sand Core From -5 Feet To -10 Feet Exhibiting Vapor Tests.

Photo No. 4 Viewing Downgradient At Extensively Paved Parking Lot Toward I-44 Freeway.

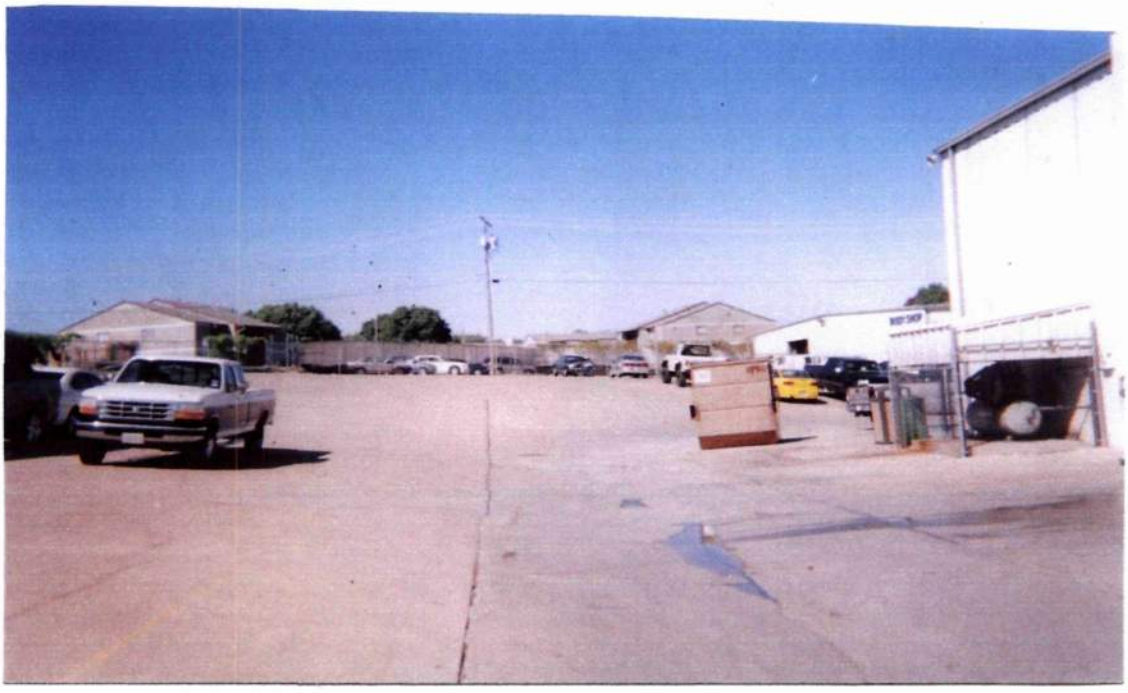


Photo No. 5 Viewing Upgradient Across Paved Property Toward Apartment Complex From MW-01.

Photo No. 6 Hand-Surging MW-01 Casing & Screen Prior To Fluid Evacuation & Well Development.

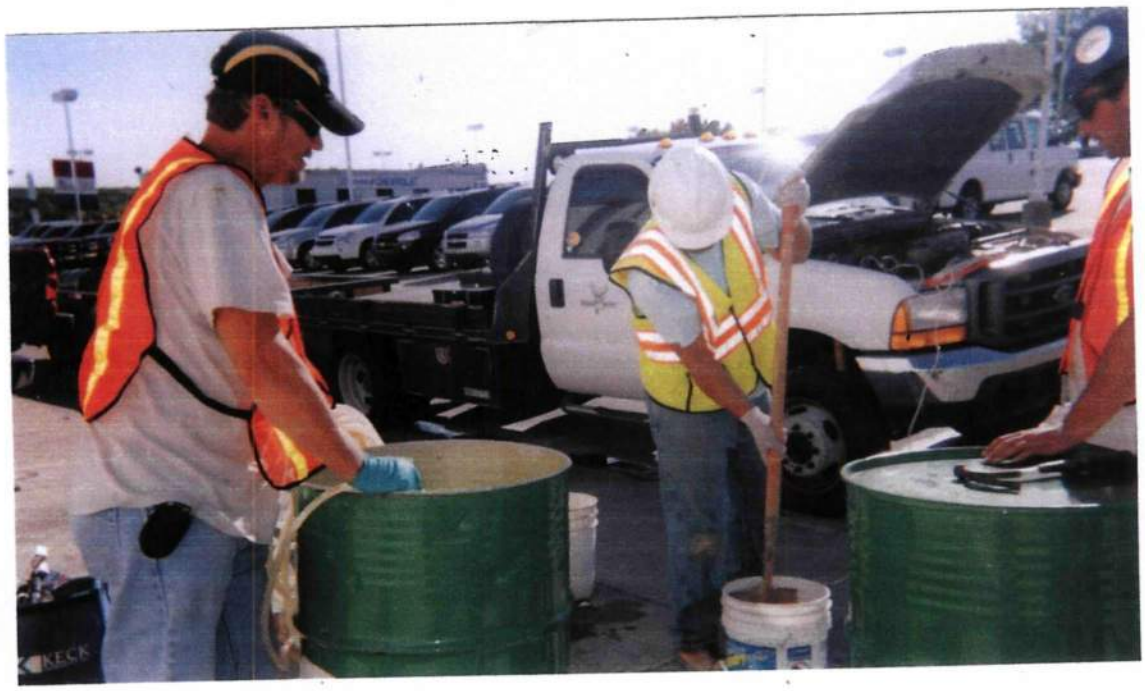


Photo No. 7 Andy Barrett And Whitetail Drilling Personnel Perform Well Development Activities.

Photo No. 8 MW-01 Was Evacuated Of 40 Gallons Of Groundwater. Deconn Water Was Added To Barrel - About 10 Gallons.

Photo No. 9 A Completed MW-01 Was Installed Within 5 Feet Of Tank Pit To The West Side.

Photo No. 10 Two Containerized Soil Barrels And One Groundwater Fluids Barrel Await Disposal.

IMAGED 12/27/2006

DOWN-TO-EARTH ENVIRONMENTAL SERVICES

MW-01

CLIENT: Riverside Chevrolet PROJECT NO: SOR-3163 DATE DRILLED: October 20, 2006

SITE: Riverside Chevrolet Service Dept LOCATION: 707 West 51 Street - Tulsa, OK 74107

DRILLING COMPANY: Whitetail Drilling RIG: _____ BOREHOLE: MW-01

LOGGED BY: Denise Cope DRILLING METHOD: Continuous Coring FLUID: Initial -8.0 ft / Final -6.77 ft

SAMPLING PROCEDURE: RCRA Format SAMPLING INTERVAL: Every 2 feet / Vapor every 0.5 feet TOTAL DEPTH: 15.5 ft

	TYPE	INTERVAL	MATERIAL	JOINT LENGTH	DIAMETER
CASING:	Schedule 40	-0.5' to -5.0'	PVC	4.5 ft	0.333 ft
SCREEN:	Schedule 40	-5.0' to -15.0'	PVC	10.5 ft	0.333 ft.
GROUT:	Portland	+0.25' to -1.5'	Cement	—	—
SEAL:	5/8" Chips	-1.5' to -3.5'	Bentonite	—	—
FILTER PACK:	20/40	-3.5' to -15.0'	Silica Sand	—	—

DEVELOPMENT: Rig Developed - purged 45 gallons (See photos)

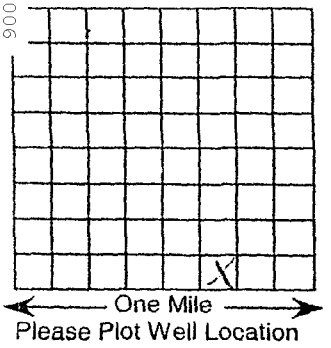
NOTES: pH = 7.7; Temp = 57.1° F; Conductivity = 84 umohs.; Total Dissolved Solids = 119

ELEVATIONS: G.L. ~~- About 650 ft MSL~~ T.O.C. -0.33 ft. RISER HT. - N/A

DEPTH (FT.)	LITHOLOGY	USCS	LITHOLOGIC DESCRIPTION/COMMENTS	GROUNDWATER/ PRODUCT LEVEL	ANALYTICAL SAMPLE INTERVAL	ORGANIC VAPOR READINGS (ppm)
			CONCRETE 0.0' to -0.5'			
			GRAVELS and FILL SAND -0.5' to -2.0'			
5			Medium yellowish tan COARSE SAND and sparse GRAVELS. GRANULAR at base. No Hydrocarbon odors. Wet below -8 ft. -2.0' to -9.75'	▼ = x	S-1	
10			Light grey SANDSTONE, saturated, faint HC Odor -9.75' to -10.5'		S-1A	3233
			Coarse GRANULAR SAND, dark tan with CHERT GRANULES and thin, sparse dark green CLAY lenses. Faint H.C. Odor. -10.5' to -14.5'	x	S-2	16 21 45
15			Medium blueish grey SHALEY CLAY (Cofferville Fm.?), dense, indurated, Auger refusal at -16'. Borehole collapse to -14.5'.	x	S-3	10
20						
25						
30						

IMAGED 12/27/2006

N ☐ Ten Acres



MULTI-PURPOSE COMPLETION REPORT
MONITORING WELLS

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Do Not Write In This Space
Well Log ID Number _____

LEGAL DESCRIPTION

Do Not Write In This Space
____ ¼ ____ ¼ ____ ¼

of Sec. 24 Township 19 ☒ N ☐ S Range 12 ☐ WIM ☒ EIM ☐ ECM

Optional Information
Latitude _____ Longitude _____

Number of wells in 10 acre tract 1 Well No. (if applicable) MW1

County Tulsa Variance Request No. (if applicable) _____

Well Owner Riverside Chevrolet Phone _____

Address/City/State 707 W. 51st St. / Tulsa, OK Zip 74107

Finding Location 707 W. 51st St. in Tulsa, OK

TYPE OF WORK
- ☐ Geotechnical Boring
- ☒ Monitoring Well
- ☐ Plugging

USE OF WELL
- ☒ Site Assessment Observation
- ☐ Unsaturated Zone Monitoring
- ☐ Air Sparge
- ☐ Vapor Extraction
- ☐ Water Quality
- ☐ Recovery
- ☐ Other _____

NEW BORING OR WELL CONSTRUCTION DATA
An application for a variance must be requested and obtained before any changes are made to the minimum constructon standards for any well.

Date Started 10/20/06 Date Completed 10/20/06

Hole Diameter 11 inches From 0 feet to 15 feet

Hole Diameter _____ inches From _____ feet to _____ feet

CASING RECORD:

Surface Pipe (Casing) Diameter _____ inches From _____ feet to _____ feet

Well Casing Diameter 4 inches From 0 feet to 5 feet

Well Casing Diameter _____ inches From _____ feet to _____ feet

SCREEN OR PERFORATION RECORD:

Type and Slot Size PVC .010 From 5 feet to 15 feet

Type and Slot Size _____ From _____ feet to _____ feet

FILTER PACK:

Type and Size Sand 20/40 From 3.5 feet to 15 feet

Type and Size _____ From _____ feet to _____ feet

IMAGED 12/27/2006

SEAL
Type of Surface Seal Concrete From 0 feet to 1.5 feet
Type of Annular Seal Bentonite From 1.5 feet to 3. feet
Type of Filter Pack Seal Bentonite From 3 feet to 3.5 feet

TYPE OF COMPLETION: ☐ Above Ground ☒ Flush Mounted ☐ Pitless Adapter

PLUGGING DATA

☐ Non-Contaminated ☐ Contaminated Date Plugged _____

Backfilled From _____ feet to _____ feet with _____

Grouted From _____ feet to _____ feet with _____

Cement Grouted From _____ feet to _____ feet Tremied? ☐ Yes ☐ No

LITHOLOGY DESCRIPTION

MATERIAL (indicate with a / if a zone is saturated)	ENCOUNTERED FROM (Feet)	ENCOUNTERED TO (Feet)	MATERIAL (indicate with a / if a zone is saturated)	ENCOUNTERED FROM (Feet)	ENCOUNTERED TO (Feet)
Brown - Sand	0	7			
Lt. Brown - Sand	7	9.5			
Lt. Brown - Sandstone	9.5	10			
Gray - Shale	10	15			

HYDROLOGIC DATA

Static water level encountered _____ feet below land surface. Approximate Yield _____ GPM _____

Water level of _____ feet below land surface after _____ hours pumping.

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Firm Name Whitetail Drilling, LLC D/PC No. 0463

Operator Name Andy Barrett OP No. 1172

Address 3301 NE 50th St. Oklahoma City, Ok 73121 Phone (405)427-8800

Andy Barrett Date 10/30/06
Signature

IMAGED 12/27/2006

ISOTEK, L.L.C.

4901 West Reno, Suite 200
Oklahoma City, OK 73127-6320
BUS: (405) 948-8880
FAX: (405) 948-6015

CHAIN OF CUSTODY

COMPANY NAME: Down-To-Earth Environmental

PROJECT NO.: SOR-3138 PROJECT NAME: Riverside Chevrolet

SAMPLER (Signature): Denise P. Cogle

ANALYSIS REQUESTED: BTEX, TPH-GRO, MTBE

P.O. #

INVOICE #

SAMPLE	DATE	TIME	SAMPLE IDENTIFICATION	BTEX	TPH-GRO	MTBE	NUMBER OF CONTAINERS	REMARKS
	10/20/06	12:15 pm	MW-01 S-1 at -9.5'	✓	✓		Two	Iced from Severance until delivery to Lab
	10/20/06	12:50 pm	MW-01 S-2 at -13.0'	✓	✓		One	
	10/20/06	1:18 pm	MW-01 S-3 at -15.0'	✓	✓		One	Methanol preserved for soil.
	10/20/06	3:53 pm	MW-01 Water	✓	✓	✓	Two	If MTBE is greater than 20 ug/L then run 8260 Method

REPORT TO: Down-To-Earth Denise P. Cogle

INVOICE TO: Down-To-Earth E.S. P.O. Box 1225 El Reno, OK 73036

PHONE: (405) 262-6909

FAX: (405) 262-6909

TOTAL NUMBER OF CONTAINERS: SIX

PRESERVATION METHOD USED: ICED X - all. OTHER X CH3OH - soil

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Denise P. Cogle	10/23/06 1:50 pm				Temp 2.5°C
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
					Tony Speaks
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR LAB BY:
				10/23/06 1:50	

IMAGED 12/27/2006

ISOTEK, L.L.C.

LABORATORY SERVICES

4901 West Reno, Suite 200, Oklahoma City, OK 73127-6320
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

OCTOBER 25, 2006

Laboratory Report No. 267154

DOWN-TO-EARTH ENVIRONMENTAL
PO BOX 1225
EL RENO, OK 73036

PROJECT NAME:	RIVERSIDE CHEVROLET
PROJECT NO.:	SOR-3138
SAMPLE ID:	MW-01, S-1 @ 9.5'
SAMPLE MATRIX:	SOIL
DATE SAMPLED:	OCTOBER 20, 2006
DATE RECEIVED:	OCTOBER 23, 2006
TEMPERATURE:	2.5 °C
DATE ANALYZED:	OCTOBER 24, 2006
TIME ANALYZED:	14:37 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	SAMPLE RESULTS	
8021 B	EPA	5 ug/kg	BENZENE	ND	
8021 B	EPA	5 ug/kg	TOLUENE	ND	
8021 B	EPA	5 ug/kg	ETHYLBENZENE	ND	
8021 B	EPA	5 ug/kg	TOTAL XYLENES	ND	
8021 B	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	92.5	%
8015 M	ODEQ	1 mg/kg	Volatile TPH (Gasoline Range Organics)	69	mg/kg

mg/kg	Milligrams per Kilogram, equivalent to parts per million.
ug/kg	Micrograms per Kilogram, equivalent to parts per billion.
ND	None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Certified By:

IMAGED 12/27/2006

ISOTEK, L.L.C.

LABORATORY SERVICES

4901 West Reno, Suite 200, Oklahoma City, OK 73127-6320
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

OCTOBER 25, 2006

Laboratory Report No. 267155

DOWN-TO-EARTH ENVIRONMENTAL
PO BOX 1225
EL RENO, OK 73036

PROJECT NAME:	RIVERSIDE CHEVROLET
PROJECT NO.:	SOR-3138
SAMPLE ID:	MW-01, S-2 @ 13'
SAMPLE MATRIX:	SOIL
DATE SAMPLED:	OCTOBER 20, 2006
DATE RECEIVED:	OCTOBER 23, 2006
TEMPERATURE:	2.5 °C
DATE ANALYZED:	OCTOBER 24, 2006
TIME ANALYZED:	15:14 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	SAMPLE RESULTS	
8021 B	EPA	5 ug/kg	BENZENE	ND	
8021 B	EPA	5 ug/kg	TOLUENE	ND	
8021 B	EPA	5 ug/kg	ETHYLBENZENE	ND	
8021 B	EPA	5 ug/kg	TOTAL XYLENES	ND	
8021 B	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	88.1	%
8015 M	ODEQ	1 mg/kg	Volatile TPH (Gasoline Range Organics)	ND	

mg/kg	Milligrams per Kilogram, equivalent to parts per million.
ug/kg	Micrograms per Kilogram, equivalent to parts per billion.
ND	None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Certified By:

IMAGED 12/27/2006

ISOTEK, L.L.C.

LABORATORY SERVICES

4901 West Reno, Suite 200, Oklahoma City, OK 73127-6320
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

OCTOBER 25, 2006

Laboratory Report No. 267156

DOWN-TO-EARTH ENVIRONMENTAL
PO BOX 1225
EL RENO, OK 73036

PROJECT NAME:	RIVERSIDE CHEVROLET
PROJECT NO.:	SOR-3138
SAMPLE ID:	MW-01, S-3 @ 15'
SAMPLE MATRIX:	SOIL
DATE SAMPLED:	OCTOBER 20, 2006
DATE RECEIVED:	OCTOBER 23, 2006
TEMPERATURE:	2.5 °C
DATE ANALYZED:	OCTOBER 24, 2006
TIME ANALYZED:	15:50 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	SAMPLE RESULTS	
8021 B	EPA	5 ug/kg	BENZENE	ND	
8021 B	EPA	5 ug/kg	TOLUENE	ND	
8021 B	EPA	5 ug/kg	ETHYLBENZENE	ND	
8021 B	EPA	5 ug/kg	TOTAL XYLENES	ND	
8021 B	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	94.2	%
8015 M	ODEQ	1 mg/kg	Volatile TPH (Gasoline Range Organics)	ND	

mg/kg	Milligrams per Kilogram, equivalent to parts per million.
ug/kg	Micrograms per Kilogram, equivalent to parts per billion.
ND	None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Certified By:

IMAGED 12/27/2006

ISOTEK, L.L.C.

LABORATORY SERVICES

4901 West Reno, Suite 200, Oklahoma City, OK 73127-6320
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

OCTOBER 25, 2006

Laboratory Report No. 267157

DOWN-TO-EARTH ENVIRONMENTAL
P. O. BOX 1225
EL RENO, OK 73036

PROJECT NAME:	RIVERSIDE CHEVROLET
PROJECT NO.:	SOR-3138
SAMPLE ID:	MW-01
SAMPLE MATRIX:	WATER
DATE SAMPLED:	OCTOBER 20, 2006
DATE RECEIVED:	OCTOBER 23, 2006
TEMPERATURE:	2.5 °C
ACID PRESERVATIVE:	pH < 2
DATE ANALYZED:	OCTOBER 24, 2006
TIME ANALYZED:	16:32 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	SAMPLE RESULTS
8021 B	EPA	0.2 ug/l	BENZENE	13 ug/l
8021 B	EPA	0.2 ug/l	TOLUENE	44.7 ug/l
8021 B	EPA	0.2 ug/l	ETHYLBENZENE	255 ug/l
8021 B	EPA	0.2 ug/l	TOTAL XYLENES	420 ug/l
8021 B	EPA	0.2 ug/l	MTBE	4 ug/l
8021 B	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	97.6 %
8015 M	ODEQ	1 mg/l	Volatile TPH (Gasoline Range Organics)	3 mg/l

mg/l	Milligrams per Liter, equivalent to parts per million.
ug/l	Micrograms per Liter, equivalent to parts per billion.
ND	None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Certified By:

Chain-of-Custody

Page 1 of

IMAGED 12/27/2006

194663

ERMI
Bethany Tech Center
400 W. Bethany, Suite 190
Allen, Texas 75013
972- 727-1123 (Local) * 800- 228-ERMI (Long Distance)
972- 727-1175 (Fax)

Company Name: DOWN-TO EARTH ENVIRONMENTAL SERVICES ❶
Contact: DENISE P. COPE P.G.
Address: 1902 EAST ROGERS ST
City: EL RENO State: OK Zip Code: 73036-3323
Telephone: (405) 262-6909 Fax Number: (405) 262 6909

Comments: ICED FROM SEVERAL UNTIL DELIVERY TO LAB

TAT: Normal ☒ Expedite ☐ (Call for Pricing)

Billing Name: DOWN-TO EARTH ENVIRONMENTAL SERVICES ❷
Billing Address (if different): 1902 EAST ROGERS ST
City: EL RENO State: OK Zip Code: 73036-3323
Telephone: (405) 262 6909 Fax Number: (405) 262 6909
Purchase Order Number: None ❸

Project Name: Riverside Chevrolet ❹ Project Number: ❺
Address: 707 West 51st Street
City: TULSA State: OK Zip Code: 74105
Sampler: Denise P. Cope Signature: [illegible] Cope #150 ❻

REQUESTED ANALYSES ❼

ERMI Use Only	Field Sample I.D.	Sample Date ❽	Sample Time ❾	Matrix	# of Bottles	Preservative	Sample Type Comp.	Sample Type Grab	BTEX	TPH-GRO						
	S-1 Dispenser Base at -4'	9/20/06	3:08pm	Soil	2	None		X	X	X						
	S-2 Trunk Connection Base at -4'	9/20/06	3:15pm	Soil	2	None		X	X	X						
	S-3 [illegible] Point Pit Backfill Comp	9/20/06	3:22pm	Soil	2	None	X		X	X						

Relinquished By: [illegible] Cope ❿	Date: 9/20/06	Time: 4:50pm	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Method of Shipment:	Date:	Received for ERMI By:		Date:	Time:

See Reverse for Terms and Conditions

Revised 10/09/96

WHITE: Original to be returned with Report; YELLOW: ERMI copy; PINK: Customer Copy

IMAGED 12/27/2006

Environmental Laboratories
Bethany Tech Center • Suite 190
400 W. Bethany Rd. • Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10288
Texas: T104704232-06-TX

Report of Sample Analysis

Down to Earth
1902 E Rogers St
El Reno, OK 73036-3323
ATTN: Denise Cope

Page: Page 1 of 8
Project: Riverside Chevrolet
Project #: [none]
Print Date/Time: 09/28/06 16:40

Attached is our analytical report for the samples received for your project. Below is a list of your individual sample descriptions with our corresponding laboratory number. We also have enclosed a copy of the Chain of Custody that was received with your samples and a form documenting the condition of your samples upon arrival. Please note any unused portion of the samples may be discarded upon expiration of the EPA holding time for the analysis performed or after 30 days from the above report date, unless you have requested otherwise.

ERMI Environmental Laboratories certifies that all results contained in this report were produced in accordance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) unless otherwise noted. The results presented apply to the samples analyzed in accordance with the chain-of-custody document(s) furnished with the samples. This report is intended for the sole use of the customer for whom the work was performed and must be reproduced, without modification, in its entirety.

Sample Identification

Laboratory ID #	Client Sample ID	Matrix	Sampled Date/Time	Received Date/Time
0609458-01	S-1 Dispenser Base at -4'	Solid	09/20/06 15:08	09/20/06 16:50
0609458-02	S-2 Tank Conection Base at -4'	Solid	09/20/06 15:13	09/20/06 16:50
0609458-03	S-3 16-Point Pit Backfill Comp.	Solid	09/20/06 15:22	09/20/06 16:50

Thank you for the opportunity to serve your environmental chemistry analysis needs. If you have any questions or concerns regarding this report please contact our Customer Service Department at the phone number below.

Respectfully submitted,

Kendall K. Brown
President

Local: (972) 727-1123 **Long Distance: (800) 228-ERMI** **FAX: (972) 727-1175**

IMAGED 12/27/2006

Environmental Laboratories
Bethany Tech Center • Suite 190
400 W. Bethany Rd. • Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10288
Texas: T104704232-06-TX

Report of Sample Analysis

Down to Earth
1902 E Rogers St
El Reno, OK 73036-3323
ATTN: Denise Cope

Project: Riverside Chevrolet
Project #: [none]
Print Date/Time: 09/28/06 16:40

Laboratory ID #: 0609458-01
Sample Type: Grab
Matrix: Solid
Sample Collected By: Denise P. Cope — Customer
Sample Description: S-1 Dispenser Base at -4'
Sample Date/Time: 09/20/06 1508

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons - Oklahoma GRO										
TPH Gasoline	ND	0.050	0.050	mg/kg	0.99	EPA 8015B mod	6I26029	09/27/06 0140	TA	
Surrogate: 4-Bromofluorobenzene		*85 %*	*57-142*			EPA 8015B mod	6I26029	09/27/06 0140	TA	
BTEX										
Benzene	ND	1.00	1.00	ug/kg	0.99	EPA 8021B	6I26029	09/27/06 0140	TA	
Ethyl Benzene	ND	1.00	1.00	ug/kg	0.99	EPA 8021B	6I26029	09/27/06 0140	TA	
Toluene	ND	1.00	1.00	ug/kg	0.99	EPA 8021B	6I26029	09/27/06 0140	TA	
Xylenes (total)	ND	3.00	3.00	ug/kg	0.99	EPA 8021B	6I26029	09/27/06 0140	TA	
Surrogate: 4-Bromofluorobenzene		*92 %*	*57-142*			EPA 8021B	6I26029	09/27/06 0140	TA	

IMAGED 12/27/2006

Environmental Laboratories
Bethany Tech Center • Suite 190
400 W. Bethany Rd. • Allen, Texas 75013

State Certifications
Arkansas: 88-0647
Oklahoma: 8727
Louisiana: 02007
Kansas: E-10288
Texas: T104704232-06-TX

Report of Sample Analysis

Down to Earth
1902 E Rogers St
El Reno, OK 73036-3323
ATTN: Denise Cope

Project: Riverside Chevrolet
Project #: [none]
Print Date/Time: 09/28/06 16:40

Laboratory ID #: 0609458-02
Sample Type: Grab
Matrix: Solid
Sample Collected By: Denise P. Cope — Customer
Sample Description: S-2 Tank Conection Base at -4'
Sample Date/Time: 09/20/06 1513

Analyte(s)	Result	SRL	MRL	Units	F*	Method	Batch	Analysis Date/Time	Anlst	Flag
Total Petroleum Hydrocarbons - Oklahoma GRO										
TPH Gasoline	43.5	2.50	0.050	mg/kg	50.10	EPA 8015B mod	6I26029	09/27/06 1251	TA	R-01
Surrogate: 4-Bromofluorobenzene		*77 %*	*57-142*			EPA 8015B mod	6I26029	09/27/06 1251	TA	
BTEX										R-01
Benzene	2200	50.0	1.00	ug/kg	50.10	EPA 8021B	6I26029	09/27/06 0251	TA	
Ethyl Benzene	9540	50.0	1.00	ug/kg	50.10	EPA 8021B	6I26029	09/27/06 0251	TA	
Toluene	1990	50.0	1.00	ug/kg	50.10	EPA 8021B	6I26029	09/27/06 1251	TA	
Xylenes (total)	7420	150	3.00	ug/kg	50.10	EPA 8021B	6I26029	09/27/06 1251	TA	
Surrogate: 4-Bromofluorobenzene		*69 %*	*57-142*			EPA 8021B	6I26029	09/27/06 1251	TA	

Local: (972) 727-1123 **Long Distance: (800) 228-ERMI** **FAX: (972) 727-1175**

BOB ANTHONY
Commissioner

CODY L. GRAVES
Commissioner

J. C. WATTS, JR
Commissioner

OKLAHOMA

CORPORATION COMMISSION

Tana Walker, Manager
Fuel Storage Dept.

JIM THORPE BUILDING (405) 521-3107

OKLAHOMA CITY, OKLAHOMA 73105

May 13, 1992

Mr. David Smith
Arkansas Valley
8316 East 73rd Street
Tulsa, OK 74133

RE: Git-N-Go #27
5150 S. 33 W. Ave.
Tulsa, OK
OCC Case #064-499, Facility #72-00596

Dear Mr. Smith:

On January 6, 1992 the new Category Clean Up Levels went into affect. After reviewing the above pollution case it appears your site is placed in a Category II. Based on your data the highest soil/groundwater contamination at this site is below the maximum contaminate levels allowed in the environment under this Category.

Therefore, closure of this case is approved under OAC 165:25-3-77 (Former Rule 13.07 + 13.09) Oklahoma Corporation Commission UST Rules and Regulations.

However, please be advised that should any contamination be discovered in the future it will have to be properly remediated according to the Rules and Regulations of the UST program.

If you have any questions, please contact me at 405/521-3107.

Sincerely,

Randy Minyen CPG #1424
Oil and Gas Specialist

RM:pv

ARKANSAS VALLEY PETROLEUM
8316 EAST 73rd STREET
TULSA, OKLAHOMA 74133 918/252-0508

May 08, 1992

RECEIVED
UST/AST Dept.
MAY 13 1992
Oklahoma Corporation
Commission

OKLAHOMA CORPORATION COMMISSION
JIM THORPE BUILDING
OKLAHOMA CITY, OKLAHOMA 73105

CASE # 064-499
FACILITY# 7200596
RE: GIT N GO #27 RULE 13.07

C.A.P.

Dear Mr. Minyen

After reviewing the site, I made the decision to remediate the contaminated soil to a outside land fill. I used the State Soil and Groundwater Remediation Index to rate the site. At this time I have rated the site as Category II, and are using the guide lines for that category. We did not have a spill or leak at this site, so I fell that the contamination is due to year of overfills and pump maintenance problems. This site did have the new spill contamination man hole in place at the time the tanks were removed. We had 2 - 8,000 gallon steel tanks at this site which were installed in 1974. During the construction on this site, we also found soil contaminated round the south gasoline island.

A. Tank Hole (Item C on the Soil Removal Plan)

On April 29, 1992 we pulled two 8-000 gallons tanks from the above site called Git N Go #27. During the tank removal we found soil contamination in the south wall of the tank hole. Because of the large amount of rain water that runs into the hole the south wall fall in back about two feet. After we received the test results back from Lab One and found them to be above the action levels. I then went to the west end of the south wall and retested. Went that test came back above the action level, we dug back two more feet. At point retest the south wall again and found the native soil to be below the action levels. Because the backfill soil in tank hole is contaminated we made the decision to permit with the Oklahoma Health Department and move the soil to the Okmulgee land fill. This will clean out the tank hole and permit us to get the new storage tanks installed.
Approximate cost: $4,969.47

B. The Island Hole (Item A,B,D on the Soil Removal Plan)

When we pulled out the old islands and took down the canopy we found some contamination around the south gasoline island. Because the area was in the middle of the new canopy footers I elected to dig out the contamination soil and stock pile it on plastic in the back of the store. We dug four test areas with a backhoe to get a feel for the amount of contamination we might have. We found that the contamination stopped about a foot above the sand stone ledge that run along the front of the store and covered a area of 77.25 cubic yards of soil. At this point we tested all the walls and the floor of the hole to make sure that we had all the contaminated soil removed. To save money I had the backhoe dig down to the ground water in the same hole to get a water sample. After I got the test back we found that the north wall of the hole was still above the action levels. I then removed the dirt in area D on the plan. I retested the north wall and got a good sample. I had the contractors back fill the hole and regrade the front area.
Approximate cost: $4,301.30.

C.A.P.

At this point I feel that the site has been cleanup to the levels of a Category II site and I would like to close both the tank hole and island area.

THE COST OF THIS PROJECT IS APPROXIMATELY: 10,000.00

Sincerely Yours,

David L. Smith

David L. Smith
Operations Manager

RECEIVED
UST/AST Dept.
MAY 13 1992
Oklahoma Corporation Commission

CHECK LIST

INITIAL ABATEMENT MEASURES AND SITE CHECK
Rule 13.03

I **SITE LOCATION**

Case Number 064-499
Facility Number 7200596

Facility Name	Git N Go #27
Location	5150 South 33 West Avenue
	Tulsa Oklahoma
Owner	Arkansas Valley Petroleum
Address	8316 E. 73th Street
City, State, Zip	Tulsa, Oklahoma, 74133
Reviewer	David L. Smith
Date Reviewed	05/08/92

II		Page #	State use only Y / N
A1	Was enough regulated substance removed from the UST to prevent further release?	Yes #2	[✓] [ ]
A2	Was a visual inspection done by owner?	Yes #2	[✓] [ ]
	Was further migration prevented?	Yes #2	[✓] [ ]
A3	Did further monitoring and mitigation of hazards occur?	NO #2	[✓] [ ]
A4	Have hazards posed by exposed contaminated soils been remedied?	YES #2	[✓] [ ]
	Did remedy include disposal?	YES #2	[✓] [ ]
	If so, were State permits required?	YES #2	[✓] [ ]
	OSDH permit(s)? Filed For as of 05/11/92	YES #2	[✓] [ ]
	OWRB permit(s)?	NO #2	[✓] [ ]
	Local city or county permit(s)	NO #2	[✓] [ ]
A5	Has release been confirmed?	N/A #2	[✓] [ ]
A6	Has free product check been done?	Yes #2	[✓] [ ]
	If free product found has removal begun	N/A	[✓] [ ]
	Date free product removal began ___/___/___	N/A	
B	Date Initial Abatement Report received ___/___/___		
	Was a written extension of time request made? y or n		[✓] [ ]
	Did OCC grant an extension of time?		[✓] [ ]
	If so, to what date? ___/___/___		
	Was Initial Abatement Report received within 20 days of release confirmation?		[✓] [ ]

Approved 5-13-92

ARKANSAS VALLEY PETROLEUM
8316 EAST 73rd STREET
TULSA, OKLAHOMA 74133 918/252-0508

May 08, 1992

OKLAHOMA CORPORATION COMMISSION
JIM THORPE BUILDING
OKLAHOMA CITY, OKLAHOMA 73105

CASE #064-449
FACILITY # 7200596
RE: GIT N GO #27 RULE 13.03

DEAR Mr. Minyen

A1. When the tanks were pulled and transported off site they were empty and filled with dry ice. No release accrued during the tank removal.

A2. I personally was on site during the tank removal along with your inspector from the Oklahoma Corporation Commission. There was no mitigation.

A3. No, the soil contamination was around the fills and sub pumps and was found when the concrete was taken up.

A4. Yes, the south wall of the tank hole was remedied back four feet. The tank hole back fill was placed back in the hole for storage till permits could be got from the Oklahoma Health Department. The contaminated soil from around the south fuel island was removed and stored to the rear of the property, see soil removal plan. We have file with the Oklahoma Health Department to move the soil to the Okmulgee Landfill. I have inclosed my paper work to the Oklahoma Health Department.

A5. The store has not had any reported releases. See Page 1

A6. Yes, we found no Free Product in the tank hole area or in the fuel island area.

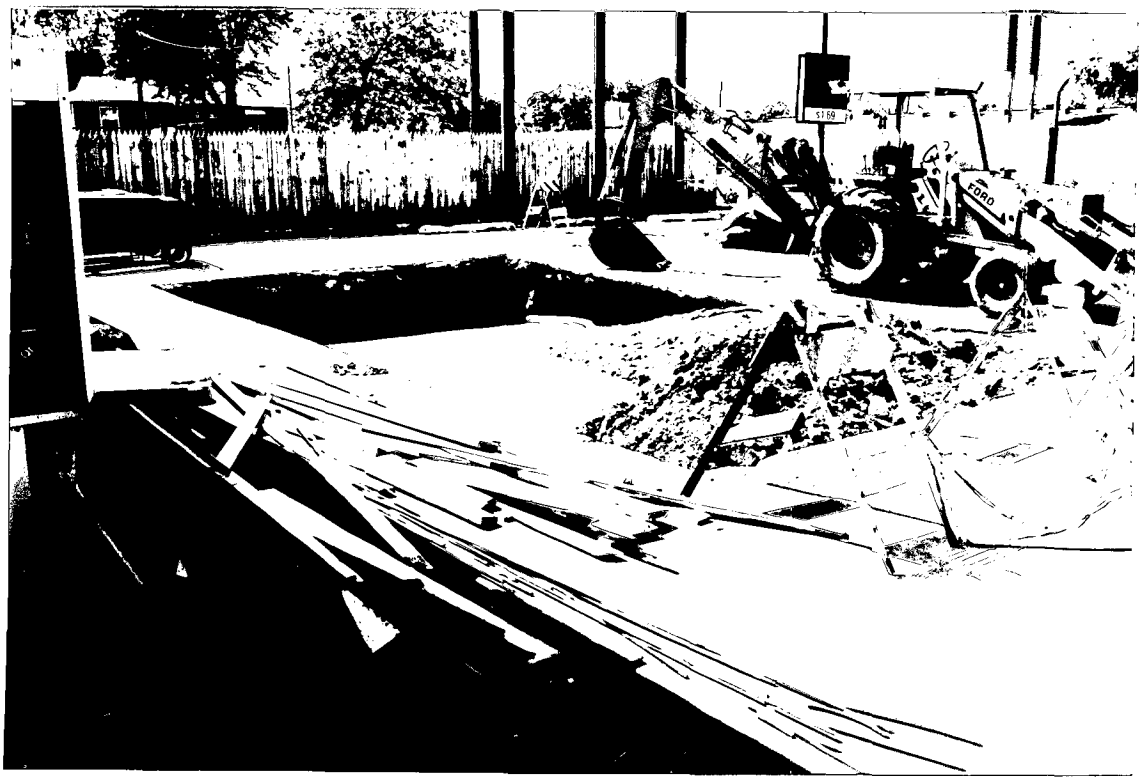
Thanks for all help with this project and if there is any missing information that you require please call me at 918 252-0508

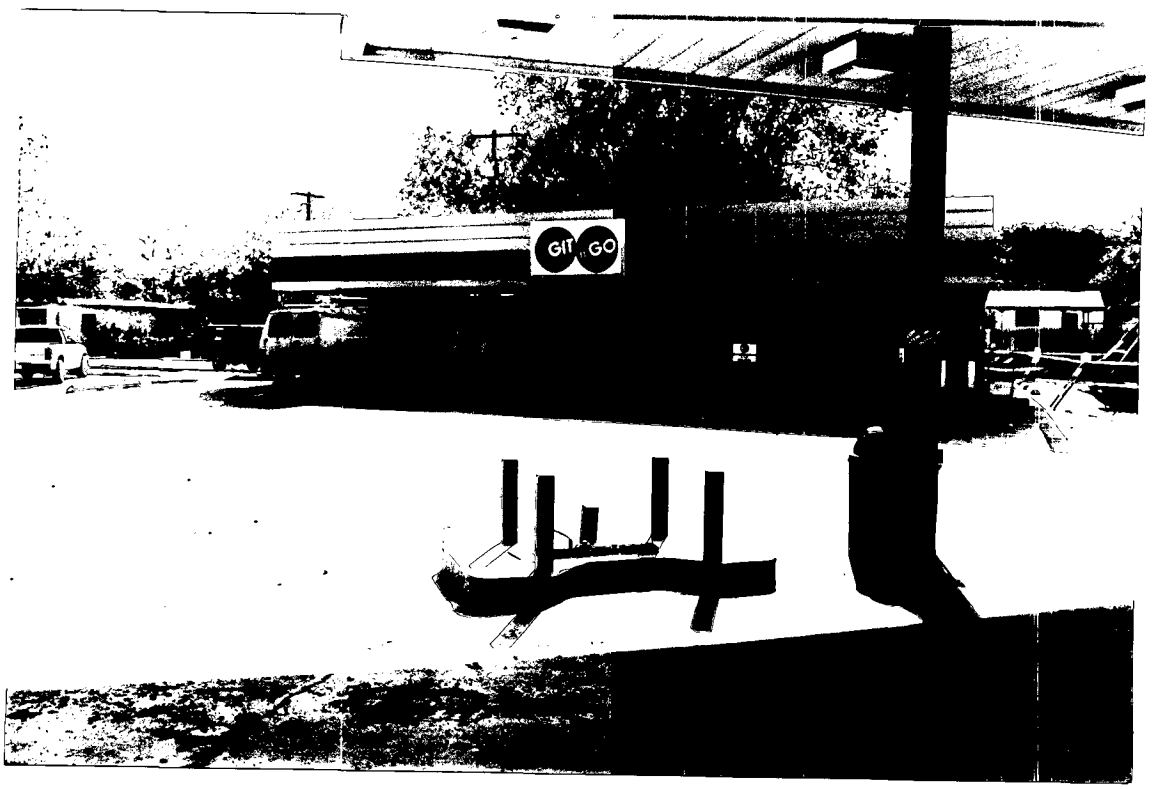
Sincerely Yours

David L. Smith
Operations Manager

GIT N GO #27

ALL BACK FILL WAS STORED IN THE TANK HOLE

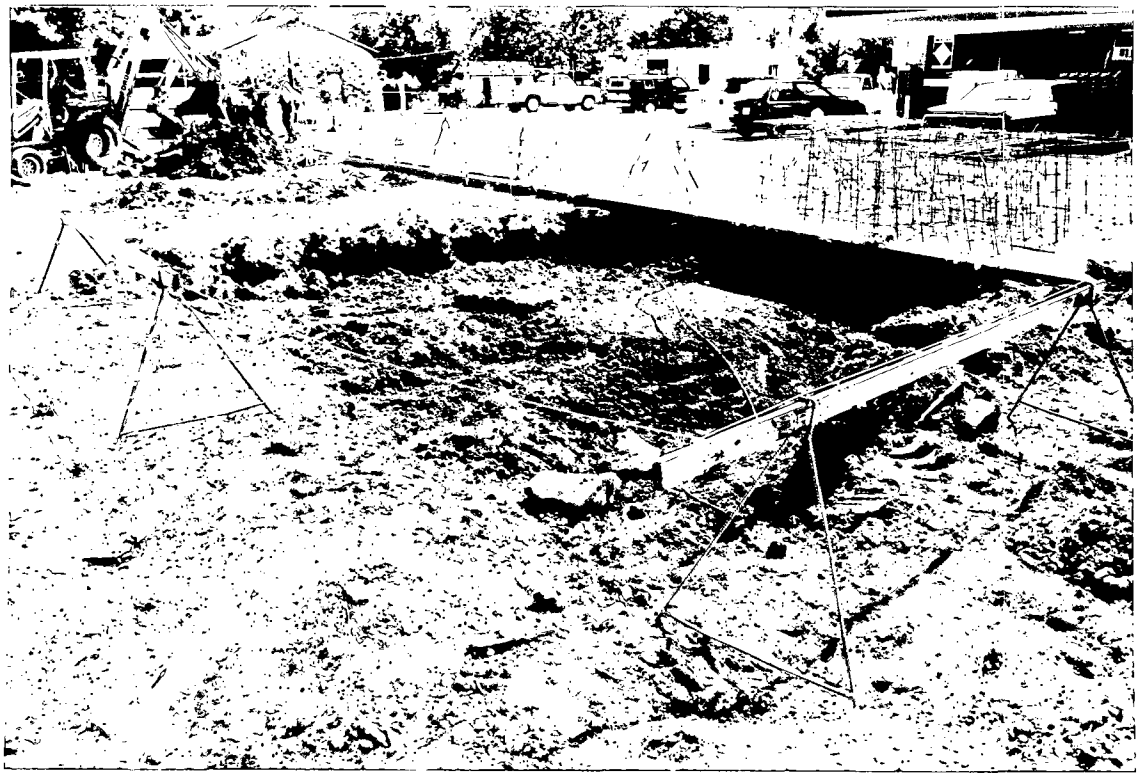


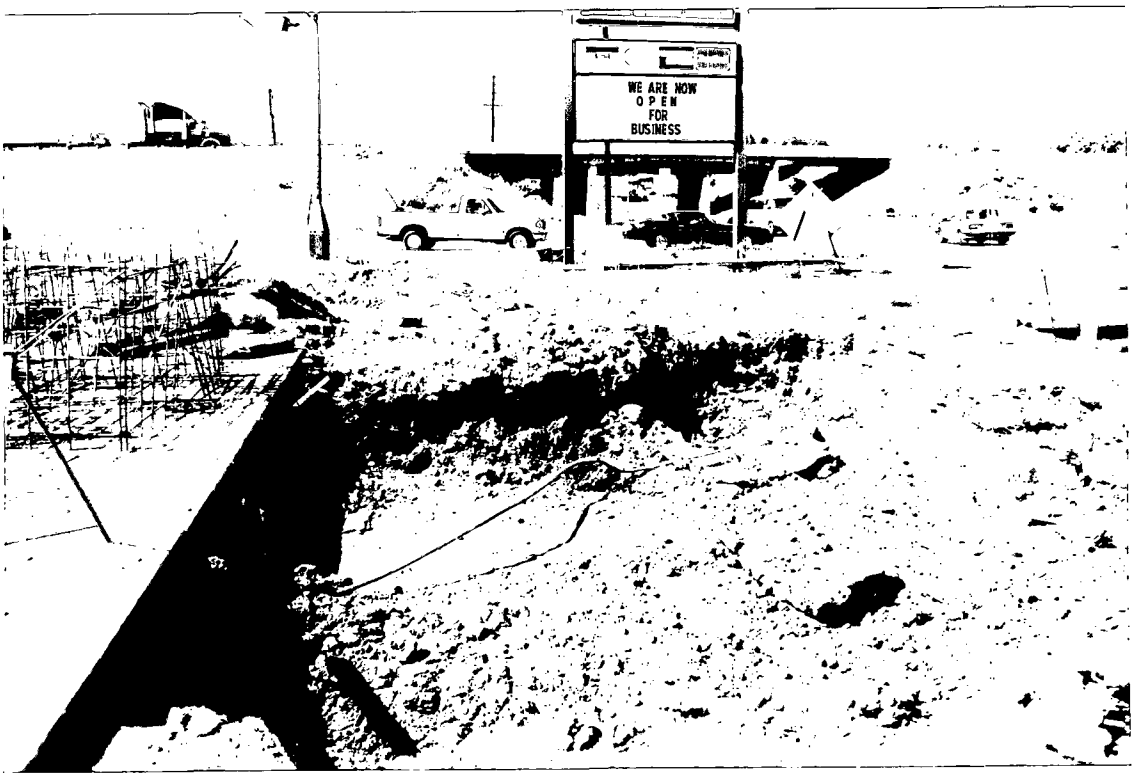


THE SOUTH GASOLINE ISLAND WHERE WE FOUND THE CONTAMINATED SOIL

GIT N GO #27

THE SOUTH ISLAND AREA WHERE WE FOUND THE CONTAMINATED SOIL





GIT N GO #27

WE STORAGED 92.06 CUBIC YARDS OF SOIL ON THE REAR OF THE PROPERTY OUT OF THE ISLAND AREA

PETROLEUM AND INDUSTRIAL EQUIPMENT

HOIDALE CO., INC.

☐ OKLAHOMA CITY, OK
P.O. Box 270368, 73127 • 6617 W. Reno, 73127
(405) 495-7010 • FAX: (405) 495-9291

☐ TULSA, OK
P.O. Box 470344, 74147 • 10126 E. 55th Place, 74148
(918) 663-4300 • FAX: (918) 663-1177

05-11-92

Glen Wheat
Oklahoma State Dept. of Health
P.O. Box 53551
Oklahoma, Ok 73152

RE: disposal of contaminated soil

Dear Mr. Wheat,

Arkansas Valley Petroleum has generated approximately 300 yards of contaminated soil from an underground storage tank facility, found during the tank removal. The Oklahoma Corporation Commission Hydrologist handling the case is Randy Minyon.

OWNER: Arkansas Valley Petroleum
8316 E. 73rd
Tulsa, Ok
918-252-0508
David Smith

LOCATION: Git-N-Go #27
5150 S. 33 W. ave
Tulsa, Ok. 74135
918-446-2052

The basis for this request is that the material is not a RCRA listed Hazardous Waste in CRF 40 part 261.31 nor TCLP Toxic and has a flash point greater than 140 degrees F. (see attached report)

We request approval to dispose of this material as an "Other Industrial Waste" at: Landfill : Okmulgee Landfill
HWY 62 E.
Okmulgee, Ok.
918-733-4558

Sincerely,

LOREN ALCORN
cc: David Smith
Willard Reyolds

OKLAHOMA STATE DEPARTMENT OF HEALTH GENERATOR CERTIFICATION FORM

The Oklahoma State Department of Health requires this certification form be completed, before your request to dispose of non-hazardous industrial waste can be approved.

"I certify that the waste described in this and attached documents is not a listed hazardous waste as described by 40 CFR 261 Subpart D and that the waste described is not contaminated with a listed hazardous waste. I further certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based upon my inquiry of these individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Generator's Name and Location GIT-N-GO #27

5150 S.33 W. AVE, TULSA,OK. 74135

Type and Quantity of Waste Other Industrial Waste

300 yards

Generator's Signature David L. Smith

Name and Official Title (type or print) David L. Smith

Operations manager

Date Signed 5/11/92

ARKANSAS VALLEY PETROLEUM
8316 EAST 73rd STREET
TULSA, OKLAHOMA 74133 918/252-0508

MAY 10, 1992

ALCORN'S
ROUTE 1 BOX 1411
RAMONA, OKLAHOMA 74061

RE: CONTRACT AT GIT N GO #27

DEAR LOREN:

As per our conversation on Friday May 8, 1992, I am writing you to confirm your written bid for this project. As of this date Arkansas Valley Petroleum is authorizing your company to proceed with getting permits through the Oklahoma Health Department for Git N Go Store #27. Under this contract your company will permit, load and haul all contaminated soils to the Okmulgee land fill. It is also understood that all prices list below will be based on 277.83 Cubic Yards. Arkansas Valley Petroleum will provide all soil testing through Lab One as needed by the land fill. As per our conversation, this project needs to be completed by May 18, 1992.

BID AS FOLLOWS:

A.	Okmulgee Land Fill Cost:	8.50 CY	2,361.56
B.	Transportation (Load & Manifest)	8.65 CY	2,403.23
C.	Excavate soil from Tank Hole	2.15 CY	400.00
D.	Administrative Cost (Permitting)	1.80 CY	500.00
Total:		21.10 CY	5,664.79

It needs to be understood by all parties that Arkansas Valley Petroleum will not exceed this bid without prior approval from myself.

Loran, Arkansas Valley Petroleum would like to thank you for your down to earth bids on this project, and I would like to thank your company for the speed at which they have moved on this project. As I told you, I will be in Oklahoma City on Wednesday May 13, 1992 and would like to pickup the permits from the Health Department at that time. If you run into any problems with getting this permits please call at once it is very important that we stay on top of this project. Also please confirm the permits with

the Health Department to pump the water into the storm drain. I have inclosed a site plan with the site legal and a Soil Removal Plan along with all are test results. Again thanks for all the help. If you need any thing else please call my office at 918 252-0508 or my pager at 624-7906.

Sincerely Yours,

David L. Smith
Operations Manager

Lab One Analytical
12329 East 60th Street
Tulsa, Oklahoma 74146
918 250-1013
Fax 918 250 1418

ANALYTICAL REPORT

Petroleum Marketers Equipment Co.
4373 South 93rd East Avenue
Tulsa, OK 74145

Report Date: 04/29/92
Analyst: M. Walker
Date Received: 04/28/92
Date Analyzed: 04/29/92
Date Collected: 04/28/92
Collected By: C. Giles
Sample No.: 2101261

Job Number: None

Job Location: G-N-G 27, 5150 S. 33rd W. Ave., Tulsa, Ok
Description: 9204-2805 BACKFILL TANK (TANK Hole)
Sample Matrix: Soil

PARAMETER	RESULTS		QUANT LIMIT	
Benzene	2.3	mg/Kg	0.5	mg/Kg
Toluene	16.0	mg/Kg	0.5	mg/Kg
Ethylbenzene	6.0	mg/Kg	0.5	mg/Kg
Total Xylenes	39.6	mg/Kg	0.5	mg/Kg
Total Petroleum Hydrocarbons	344	mg/Kg	5	mg/Kg

BTEX analyzed by GC/Purge & Trap/PID (EPA Method 8020/5030)
TPH extracted by EPA Method 5030 & analyzed by GC/FID, 8015 Modified

Quality Assurance

Surrogate Recovery: 104% Recovery as 4-Bromofluorobenzene

ppm = mg/Kg; mg/L

Lab One Analytical, Inc.

David Iacoe EH
David Iacoe, Director

LabOne

Lab One Analytical
12329 East 60th Street
Tulsa, Oklahoma 74146
918 250-1013
Fax 918 250-1418

ANALYTICAL REPORT

David Smith
Arkansas Valley Co.
8316 East 73rd Street
Tulsa, OK 74133

Report Date: 05/08/92
Analyst: J. Rice
Date Received: 05/08/92
Date Analyzed: 05/08/92
Date Collected: 04/28/92
Collected By: C. Giles
Sample No.: 2101261

Job Number: None

Job Location: G-N-G #27, 5150 S. 33rd W. Ave., Tulsa, OK
Description: 2805 BACK FILL TANK HOLE
Sample Matrix: Soil

PARAMETER	METHOD	RESULTS
Paint Filter Test	9095	No free liquids

Lab One Analytical, Inc.

David Iacoe, Director

LabOne

Lab One Analytical
12329 East 60th Street
Tulsa, Oklahoma 74146
918 250-1013
Fax 918 250-1418

ANALYTICAL REPORT

David Smith
Arkansas Valley Co.
8316 East 73rd Street
Tulsa, OK 74133

Report Date: 05/11/92
Analyst: K. Bourne
Date Received: 05/08/92
Date Analyzed: 05/08/92
Date Collected: 05/08/92
Collected By: D. Smith
Sample No.: 2101375

Job Number: None

Job Location: Git N Go #27
Description: 19 Back Fill Island Area
Sample Matrix: Soil

PARAMETER	RESULTS		QUANT LIMIT	
Benzene	2.8	mg/Kg	0.5	mg/Kg
Toluene	1.2	mg/Kg	0.5	mg/Kg
Ethylbenzene	1.2	mg/Kg	0.5	mg/Kg
Total Xylenes	1.6	mg/Kg	0.5	mg/Kg
Total Petroleum Hydrocarbons	83	mg/Kg	5	mg/Kg

BTEX analyzed by GC/Purge & Trap/PID (EPA Method 8020/5030)
TPH extracted by EPA Method 5030 & analyzed by GC/FID, 8015 Modified

Quality Assurance

Surrogate Recovery: 119% Recovery as 4-Bromofluorobenzene

ppm = mg/Kg; mg/L

Lab One Analytical, Inc.

David Iacoe, Director

LabOne

Lab One Analytical
12329 East 60th Street
Tulsa, Oklahoma 74146
918 250-1013
Fax 918 250-1418

ANALYTICAL REPORT

David Smith
Arkansas Valley Co.
8316 East 73rd Street
Tulsa, OK 74133

Report Date: 05/11/92
Analyst: K. Bourne
Date Received: 05/08/92
Date Analyzed: 05/08/92
Date Collected: 05/08/92
Collected By: D. Smith
Sample No.: 2101375

Job Number: None

Job Location: Git N Go #27
Description: 19 Back Fill Island Area
Sample Matrix: Soil

PARAMETER	METHODS	RESULTS
Paint Filter Test	9095	No free liquids

Lab One Analytical, Inc.

David Iacoe, Director

LabOne

IMAGED 8/5/2008

B ANTHONY
C missioner

JEFF CLOUD
Commissioner

JIM ROTH
Commissioner

Tech

OKLAHOMA CORPORATION COMMISSION

PETROLEUM STORAGE TANK DIVISION

(405) 521-4683 FAX: (405) 521-4945

JIM THORPE BUILDING, RM 238 • PO BOX 52000 • OKLAHOMA CITY, OK 73152-2000

August 5, 2008

Case ID # 064-3062
Facility ID # 72-02757
Final Closure Letter

Jim Beavers
5731 S. 49th W. Ave.
Tulsa, OK 74157

RE: Approved Final Closure Letter for the site located at:

B&M Oil Co.
5102 S. Union Ave.
Tulsa, Oklahoma

Dear Mr. Beavers:

Based upon the review of the Oklahoma Risk-Based Corrective Action Report, this case is closed. If in the future, levels of chemicals of concern are discovered that exceed those determined appropriate for this site, the case may be reopened. A copy of this letter is being sent to your environmental consultant.

If you have any questions, please discuss them with your consultant or call me at (405) 522-6173, between 8:00 a.m. and 4:30 p.m., Monday through Friday. Please reference the appropriate OCC Facility Number and Case Number on all correspondence.

Enclosed you will find a copy of a "Final Claim Confirmation" letter. This letter is to be submitted to the Indemnity Fund with the last claim for this case. Once this letter has been received by the Oklahoma Corporation Commission, Petroleum Storage Tank Division, the Accounting Department will review the case for any potential refund of your deductible. Please note; no other claims can be submitted for payment after this letter has been received on this confirmed case.

Sincerely,

Phillip Hudnall/nb

Phillip Hudnall
Project Environmental Analyst

PH/nb

cc: Conestoga-Rovers & Associates
Attn: Mike Dale
11004 East 51st St.
Tulsa, OK 74146

Copies to Tech File, and Claim Files

IMAGED 8/5/2008

Final Site Closure Report

For

FORMER CITGO QUICK STOP
5102 S. UNION AVENUE
TULSA, OKLAHOMA

Approved
PH 8-4-08

Prepared for:

B & M OIL COMPANY
5731 S 49TH W. AVE.
TULSA, OKLAHOMA

JULY 1, 2008
OCC CASE: 064-3062
FACILITY ID: 72-03757

Prepared by:

CONESTOGA-ROVERS & ASSOCIATES

Conestoga-Rovers & Associates
11004 East 51st Street
Tulsa, Oklahoma 74146
Telephone (918) 828-2424 • Facsimile (918) 828-0202

IMAGED 8/5/2008

CONESTOGA-ROVERS
& ASSOCIATES

11004 E. 51st Street
Tulsa, OK 74146
Telephone: (918) 828-2424 Fax: (918) 828-0202
http://www.craworld.com

July 1, 2008

Mr. Phillip Hudnall
OKLAHOMA CORPORATION COMMISSION
Petroleum Storage Tank Division
Jim Thorpe Building
P. O. Box 52000
Oklahoma City, Oklahoma 73152-2000

RE: Final Site Closure, B & M Oil Company, Former Citgo Quick Mart, 5102 S. Union Avenue, Tulsa, Oklahoma, OCC Case #064-3062, Facility ID #72-03757

Dear Mr. Hudnall,

Please find the attached Final Site Closure Report. Conestoga-Rovers & Associates (CRA) has completed the activities associated with final site closure at the above referenced site for its client, B & M Oil Company. CRA completed the well abandonment of four Tier 1/1A groundwater monitoring wells on April 3, 2008. The Oklahoma Water Resources Board (OWRB) drillers plugging report, site map and photographs are included in this report.

Two drums of waste were generated during the plugging activities. The waste drums were disposed at an EPA approved landfill. Waste manifests are included with this report as an attachment.

If you have questions or need additional information, please contact me at 918-828-2424.

Sincerely,
Conestoga-Rovers & Associates

Michael Dale
Project Geologist
OCC UST consultant #166

attachments
cc: Jim Beavers, B & M Oil Co.

Equal
Employment Opportuity
Employer

IMAGED 8/5/2008

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION

Final Closure Report

PSTD Reviewer Phillip Hudnall Approve [X] Deny [ ] Date 8-4-08

1. CASE NUMBER: **064-3062** Submitted to (PSTD P.E.A.): **Phillip Hudnall**
   FACILITY NUMBER: **72-02757** To Fulfill Purchase Order: **WP-093168**

2. Facility Name: **B&M Oil Co. - Fmr. Citgo Quick Mart**
   Contact Person/Phone No.: **Jim Beavers / 918-445-0728**
   Street Address, City, County: **5102 S. Union Ave., Tulsa, Tulsa Co.**

3. Owner/Operator: **B&M Oil Co.**
   Contact Person/Phone No.: **Jim Beavers / 918-445-0728**
   Address, City, State, Zip : **5731 S. 49th W. Ave., Tulsa, OK 74157**

4. I certify that all work has been done in a good and workmanlike fashion according to workplan/purchase order approved by the Petroleum Storage Tank Division.

   Remediation Consultant's Signature _____ Date 7/1/08
   PSTD License Number: **166** Date: **7/2/08**
   Remediation Consultant and Firm **Conestoga-Rovers & Associates**
   Phone Numbers: Voice: **928-828-2424** Fax: **918-828-0202** Pager/Cell: **918-430-5605**
   E-Mail Address: **mdale@CRAworld.com**

   Consulting Firm Principal Signature _____

5. List the wells that were:
   Overdrilled & cement grouted: **MW-1, MW-2, MW-3 & MW-4**

   Pulled & plugged:

   Casing cement grouted in place (Attach OWRB Variance):

   Other (Describe):

   Not found (Describe efforts to find and possibly what might have happened to the well):

6. Has all decommissioned material (soil, water, casing, monuments, pads, etc), soil piles and visqueen been removed and properly disposed? If not, attach an explination.

   Yes☒ No☐

7. Attach the Oklahoma Water Resources Board's (OWRB) Multi-Purpose Completion Report – Monitoring Wells. Well identification, plugging data and driller's certification must be completed.

8. Briefly describe the decommissioning of all surface equipment.
   NA – no surface equipment

9. Briefly describe the decommissioning of all pipe runs/trenches.
   NA – no remediation

IMAGED 8/5/2008

Were all utilities for installed remediation system properly disconnected and service discontinued? If not, attach an explanation.

Yes☐ No☐ N/A ☒

11. Were all state and local agencies properly notified regarding the termination of any permits they had issued? If not, attach an explanation. Yes☐ No☐ N/A ☒

12. List the name and phone number of the current property owner if different from the responsible party.
NA

List the name(s) and phone number(s) of all off-site property owners where monitoring wells and/or remediation equipment were decommissioned.
NA

13. List any monitoring wells, remediation equipment or soil piles that the current property owner wants to retain. OWRB OAC Rule 785:35-11-2(a) states "Monitoring wells...shall be plugged...within three days after completion of use...". Unless there is some other monitoring use for a monitoring well PSTD insists that all such wells be decommissioned.
NA

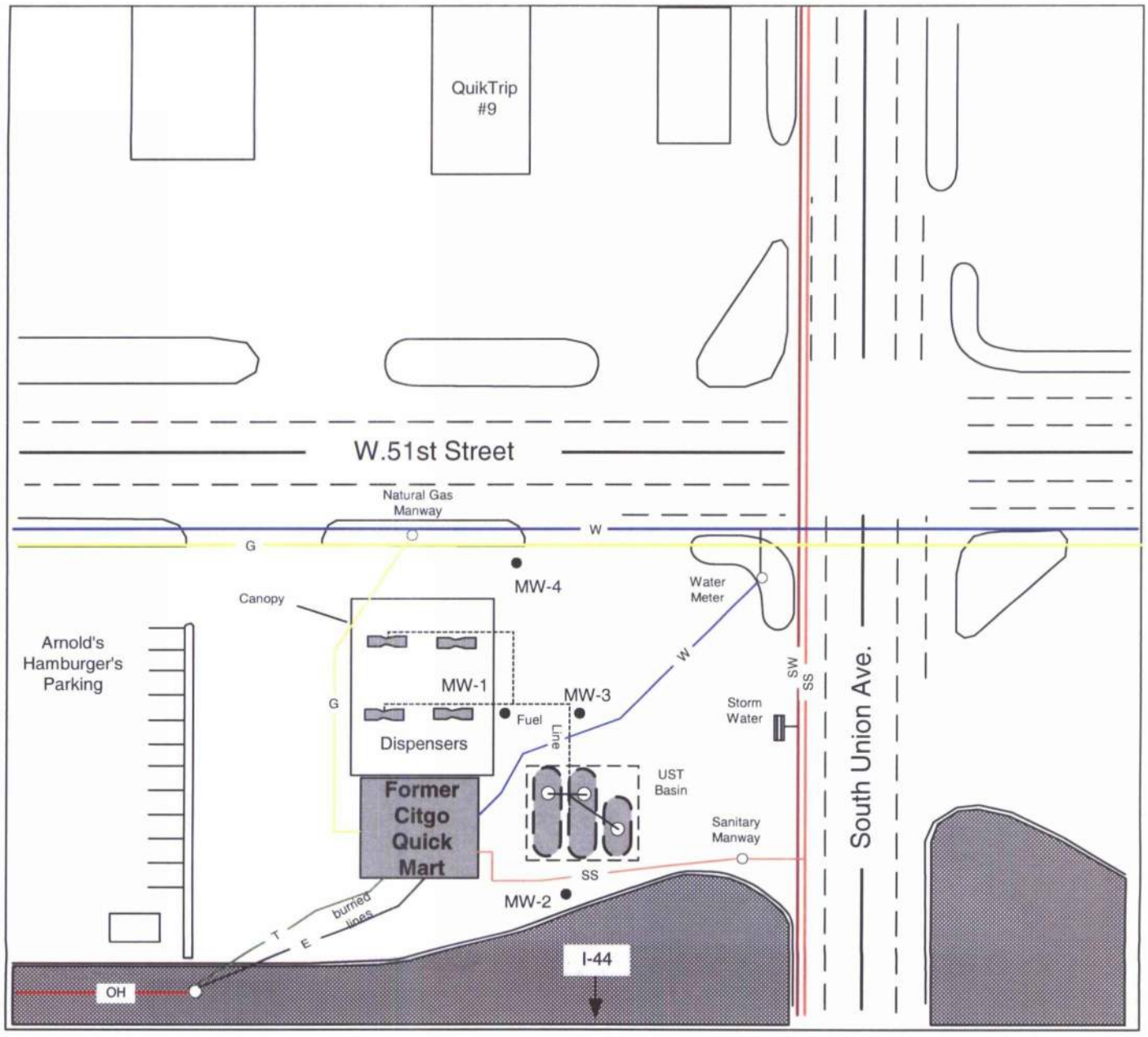
If there is anything listed as no above, the current property owner and tank owner/operator (eligible party- EP) must sign below that they understand that work performed after the date of closure of this case will not be reimbursed by the Indemnity Fund. They must also understand that they are responsible for any associated liability and decommissioning of any monitoring wells according to the rules and regulations of the OWRB. If the EP of any adjacent case wants to retain any item listed above, they may sign on the EP line and list the appropriate case number.

_____ Date _____
Current Property Owner

_____ Date _____
Tank Owner/Operator (Eligible Party)

Adjacent Case Number

IMAGED 8/5/2008



LEGEND

- SS = Santitary Sewer Line (4-6')
- SW = Storm Water Line (6')
- G = Gas Line (3-4')
- E = Electric Line (4')
- W = Water Line (2')
- OH = Overhead Lines (20' above)
- T = Telephone Line (2')
- ● = Proposed Tier 1 Monitoring Well Location

SCALE

0 25 50

1" = 50 ft

FIGURE 1
Site Closure Map

CONESTOGA-ROVERS & ASSOCIATES

Conestoga-Rovers & Associates
11004 E. 51st Street, Tulsa, OK 74147
Phone 918.848.2424 - Fax 918.848.0202
www.CRAworld.com

FORMER CITGO QUICK MART
5102 S. UNION AVE.
TULSA, OKLAHOMA

FILE NAME: CITGO SITE_CLS.VSD | PROJECT NO.: 064-3062 | DATE: 6/10/08 | DRAWN BY: MAD

IMAGED 8/5/2008

PHOTO 01: Prep to overdrill MW-2 near former UST basin.

PHOTO 02: Breaking steel man-way insert.

PHOTO 03: Destroying PVC screen.

PHOTO 04: Overdrilling MW-4.

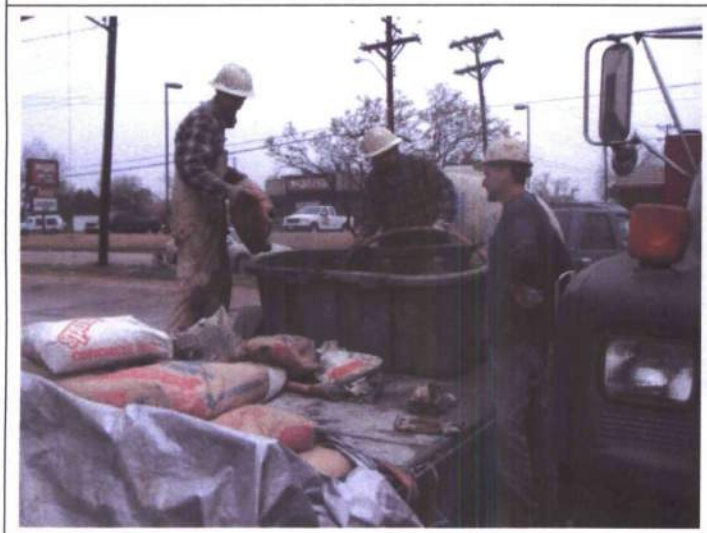


PHOTO 05: Mohawk Drilling crew mixing grout.

.PHOTO 06: Preparing to grout overdrilled hole.

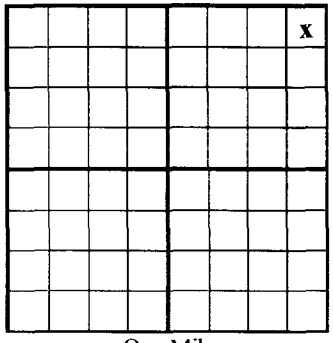
IMAGED 8/5/2008

MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location

North



Each square is 10-acres

WELL ID NUMBER: 115946

Quarters NE-NE-NE **Section** 34 **Township** 19N **Range** 12E1

Latitude 36.0896667 Longitude -96.0121667

Date collected(latitude and longitude), if different from date the well was drilled: 04/03/2008

Method latitude and longitude was collected: GPS - uncorrected data

County Tulsa

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner B&M Oil Company Phone

Address/City/State P.O. Box 9309 Tulsa OK Zip 74157

Finding Location 5102 South Union Tulsa, oklahoma

Well Name MW-1,2,3,4 Water Rights #:

TYPE OF WORK: Monitoring Well **USE OF WELL:** Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 10/10/2006

Number of wells or borings represented by this log 4

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 8.5 inches to a depth of 20 ft.

CASING INFORMATION ***Note:** If surface casing is used please indicate that on the appropriate well casing information linc.

IMAGED 8/5/2008

Surface Pipe Material: __ Surface Pipe Diameter ___ inches Surface Pipe From ___ ft to ___ ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 5 ft to 20 ft.

IMAGED 8/5/2008

FILTER PACK INFORMATION

Filter Pack Material: __

WELL SEAL INFORMATION

Type of Surface Seal _n/a_ Surface Seal Interval: From _n/a_ ft to _n/a_ ft

Type of Annular Seal _n/a_ Annular Seal Interval: From _n/a_ ft to _n/a_ ft

Filter Pack Seal Material _n/a_ Filter Pack Seal Interval: From _n/a_ ft to _n/a_ ft

TYPE OF COMPLETION: __

HYDROLOGIC INFORMATION

Depth to water at time of drilling ___ ft Estimated yield of well ___ gpm First water zone ___ft

LITHOLOGY DESCRIPTION

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? _n/a_

Are than any potential sources of pollution or wastewater lagoons within 300 ft. of the well? _n/a_

Distance of Well is _n/a_ from possible source. Type of possible source: _n/a_

PLUGGING INFORMATION

Date Well or Boring Was Plugged _04/03/2008_ Total Depth of well being plugged _20_ ft.

Was the well contaminated or was it plugged as though it was contaminated? _No_

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? _Yes_

Was the grout tremied? _Yes_

Backfilled with _n/a_ Backfilled from ___ ft. to ___ ft.

Grouted with _n/a_ Grouted from ___ ft. to ___ ft.

Grouted with _Cement_ Grouted from _0_ ft. to _20_ ft.

Firm Name _Mohawk Drilling, Inc._ D/PC No. _DPC-0563_

Operator Name _KEVIN WILKIE_ OP No. _OP-1377_

Date _04/08/2008_

Comments: Three other wells were plugged, 17.17 and 16.5.

IMAGED 8/5/2008

Oklahoma Corporation Commission, Petroleum Storage Tank Division

Disposal/Recycler Report

GENERATOR	OCC PSTD Facility ID Number: 72-03757	Case Number: 064-3062	Page 1 of 1
	Generating Facility Name & Physical Address Former Citgo Quick Mart, 5102 S. Union, Tulsa, OK Generator's Phone (918) 445-0728	Agent's (Consultant) Name & Mailing Address Conestoga-Rovers & Associates, 11004 E. 51st St., Tulsa, OK 74146 Agent's Phone (918) 828-2424	
	Transporter Company Name Conestoga-Rovers & Associates	Transporter's ID No./State __ EPA __	Transporter's Phone
	Receiving Facility Name and Site Address American Environmental Landfill, 212 N. 177th W. Ave., Sand Springs 74063	Receiving Facility's Permit Number 3557021 Receiving Facility Contact & Phone Todd Green - (918) 245-7786	OCC PSTD Purchase Order Number

GENERATOR	Material Description Check all that apply		Removed from site as: Drum (No.)	Bulk	Total Quantity	Unit Wt/Vol
	☑	Petroleum-Impacted Waste Solids, Total Petrol. Hydrocarbons (TPH) < 1,000 ppm	2			
	☐	Petroleum-Impacted Waste Solids, Total Petrol. Hydrocarbons (TPH) > 1,000 ppm				
	☐	Petroleum-Impacted Waste Water				
	☐	Petroleum Product (LNAPL or Free Product) Must check one box below				
		Product mostly contains:				
	☑	Gasoline Fuel				
	☐	Diesel Fuel				
	☐	Transmix				
	☐	[illegible]				
	☐	Construction Debris				

Additional Descriptions for Materials Listed Above

Over-drill soil cutting from site closure

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above and are in all respects in proper condition for transport by highway according to applicable national government regulations.

Printed/Typed Name	Signature	Month/Day/Year

Transporter's Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month/Day/Year
Matt Kaiser	Matt Kaiser	05/01/08

FACILITY	Receiving Facility	Rec. Facility Fee Rate (Optional)		
	Discrepancy Indication Space 212 N. 177th W. Ave Sand Springs, OK 74063 (918) 245-7786 Permit# 3557021	Price	Per	Unit
			☐	Ton
			☐	Cubic Yard
			☐	Gallon
			☐	

Receiving Facility Owner/Operator: Certifies receipt of materials covered by this report except as noted above

Printed/Typed Name	Signature	Month/Day/Year
J DeBose	J DeBose	05/01/08

Consultant's Verification Signature _____ **Date** 5/1/08

IMAGED 8/5/2008

AMERICAN ENVIRONMENTAL LANDFILL, INC.
1420 W. 35TH ST., SUITE B, TULSA, OKLAHOMA 74107-3814

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name _____ Shipping Location _____

Address _____ Address _____

_____ _____

Phone No. ☐☐☐—☐☐☐☐☐☐☐ Phone No. ☐☐☐—☐☐☐☐☐☐☐

I.D. Lab Number	Description of Waste	Quantity	Units	No.	Type
☐☐☐☐☐		☐☐☐☐☐	☐	☐☐	☐
☐☐☐☐☐		☐☐☐☐☐	☐	☐☐	☐
☐☐☐☐☐		☐☐☐☐☐	☐	☐☐	☐

Codes
D - Drum
C - Carton
B - Bag
T - Truck
P - Pounds
Y - Yards
O - Other

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name _____ Signature _____ ☐☐☐☐☐☐ Shipment Date

TRANSPORTER

Transporter Name _____ Driver Name (Print) _____

Address _____ Vehicle License No./State _____

_____ Vehicle Certification _____

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature _____ ☐☐☐☐☐☐ Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature _____ ☐☐☐☐☐☐ Delivery Date

DESTINATION

Site Name American Environmental Landfill, Inc. Phone No. 9 1 8 — 2 4 5 7 7 8 6

Address 212 N. 177th W. Ave. • Sand Springs, OK 74063 • Permit #3557021

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is accurate.

Name of Authorized Agent _____ Signature _____ ☐☐☐☐☐☐ Receipt Date

ORIGINAL - Destination Retain
COPY2 - Return to Generator
COPY3 - Transporter Retain
COPY4 - Generator Retain

IMAGED 8/5/2008

CONESTOGA-ROVERS & ASSOCIATES

COPY

Letter of Authorization

This letter is being submitted to reflect and document that the Generator listed below has granted full and complete authorization, for Michael Dale (an) employee(s) Conestoga-Rovers & Associates (CRA), to sign all waste documents on behalf of Generator. This document hereby authorizes CRA, to function in the capacity of "generator" (as that term is defined in state and federal rules and regulations) with regard to proper waste classification, representation, shipment and disposal and to otherwise act as Generator's agent to characterize, ship, dispose and otherwise represent all waste streams in accordance with all local, state and federal rules and regulations. Such authorization includes but is not limited to execution of the following types of waste-related documents:

(individuals name(s) or all)

(agent)

(agent)

- Waste Characterization Data (WCD) Forms/Waste Profiles
- Waste Manifests – Uniform Hazardous Waste Manifests and Non-Hazardous Manifests
- Process Knowledge Forms or Letters
- Waste Profile Amendment Request Forms
- WCD/Profile Recertification Forms
- Land Ban Forms
- One Time Waste Shipment Forms/Authorizations

CRA company is required to provide Generator with copies of all documents executed in accordance with this authorization.

(agent)

This authorization will expire on 12/31/08 or when written notice is provided by the generator revoking this authorization.

(Expiration date)

Respectfully,

B&M Oil Co. / Jim Bowers	
Generator's Printed Name	Generator's Signature
Pres.	B&M Oil Co.
Title	Company Name
	4/30/08
	Date

IMAGED 8/5/2008

CONESTOGA-ROVERS
& ASSOCIATES

LETTER OF TRANSMITTAL

TO: OCC - PSTD DATE: 7/2/08

JOB NO.: 064-3062

JOB TITLE: B & M Oil Co.- Fmr Citgo Quick Mart

ATTN: Phillip Hudnall

We are sending you the following items;

__X__ attached _____ under separate cover via _____

_____ reproductions _____ originals _____ specifications

_____ copy of letter _____ samples _____ other

Copies	Description	Date	No.
1	Final Site Closure Report		

These are transmitted:

__X__ **for approval** _____ as requested

_____ reviewed _____ for your use

_____ for review and comment _____ for your records

_____ after loan to us _____ _____

Remarks

Copy To: Jim Beavers, B & M Oil Co.

By: Michael Dale

IMAGED 7/18/2006

TLM 7/12/06

TANK CLOSURE SUMMARY SHEET

FACILITY ID NUMBER: 7203757 **New Owner?** No

CASE NUMBER (if applicable): 064-3062 **New Tanks?** No

Facility Address: Former Citgo Quik Mart 5102 S Union, Tulsa, OK

Consultant: Michael Dale with Conestoga Rovers

# of USTs at facility (removed): 3
# of Tanks at facility (registered): 3
# of USTs being closed in place: 0

OWNER/OPERATOR:

NAME	JOB TITLE	OWNER ADDRESS	PHONE #
B and M Oil Attn: Jim Beavers	**President**	**PO Box 9309 Tulsa, OK 74157**	**918-445-0728**

TANK ID #:	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
	01	**02**	**03**		
ESTIMATED DATE LAST USED:	**12-30-05**	**12-30-05**	**12-30-05**		
FAC DATABASE	**6000**	**10000**	**10000**		
AFTER CLSR REVIEW	**6000**	**10000**	**10000**		
TANK REMOVED (Date):	**1-26-06**	**1-26-06**	**1-26-06**		
TANK CLSD IN GROUND (Date):	**N/A**	**N/A**	**N/A**		
TANK FILLED WITH:	**N/A**	**N/A**	**N/A**		

SCHEDULED CLOSURE: **Confirmation #:03600**

SITE ASSESSMENT COMPLETED: **Yes**

- TESTING SOIL OR GW: **Soil**

EVIDENCE OF LEAK DETECTED: **Yes, Case Activated**

Miranda Lenocker

Miranda Lenocker
Technical Staff Reviewer

July 6, 2006
Date

IMAGED 7/18/2006

)B ANTHONY
)mmissioner

DENISE M. BODE
Commissioner

JEFF CLOUD
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 522-4810 FAX: (405) 522-6672

JIM THORPE BLDG, ROOM 231 • P.O. BOX 52000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

July 6, 2006

B and M Oil
Attn: Jim Beavers
PO Box 9309
Tulsa, OK 74157

Reference: Permanent Closure of (1) 6,000 gallon and (2) 10,000 gallon Underground Storage Tanks
Location: Former Citgo Quik Mart 5102 S Union, Tulsa, OK
Facility ID: 7203757; 064-3062

Dear Sir,

Conestoga-Rovers and Assoc. submitted a tank closure report to the OCC on March 3, 2006. The report indicates the above-referenced tanks were permanently removed from the ground on January 26, 2006.

While this letter acknowledges receipt and sufficiency of your tank closure information, a Suspicion of Release (SOR) or Notice of Release (NOR) exists at this facility.

The Petroleum Storage Tank Technical Department has responsibility for determining the actions to be taken and the closure of that case.

If you have any questions regarding this matter, please contact me at (405) 521-6397.

Sincerely,

Miranda Lenocker

Miranda Lenocker
Environmental Compliance Analyst

cc: Facility file #7203757
Conestoga-Rovers and Assoc, Michael Dale

IMAGED 7/18/2006

Facility Summary for 7203757

Owner Name and Address: B. & M. Oil Company, Inc. P.O. Box 9309 Tulsa OK 74157 Owner Phone: (918) 445-0728

Facility ID	Location Name	Location Street Address	Location City	Zip	Facility Phone
7203757	LUCKY TRIP WEST	5102 S UNION	Tulsa	74107	

Tank ID / AST Status	Installed Age	Product Capacity	Tank Mat'l of Construction Secondary Option	Piping Material Secondary Option	Piping Type Exempt	Tank Release Detection Piping Release Detection	FR Met Over/Spill/CP
1 No	4/14/1980	Gasoline	Cathodically Protected Steel	Fiberglass Reinforced Plastic	Pressurized	A● C● E F G H I J K L	Yes
Temporarily Out of Use	26	6,000	None	None	No	● ● E F G H I J K L	Yes Yes Yes
2 No	4/14/1966	Gasoline	Cathodically Protected Steel	Fiberglass Reinforced Plastic	Pressurized	A● C● E F G H I J K L	Yes
Currently in Use	40	10,000	None	None	No	● ● E F G H I J K L	Yes Yes Yes
3 No	4/14/1960	Gasoline	Cathodically Protected Steel	Fiberglass Reinforced Plastic	Pressurized	A● C● E F G H I J K L	Yes
Currently in Use	46	10,000	None	None	No	● ● E F G H I J K L	Yes Yes Yes

Tank/Piping Release Detection Codes

A Manual Tank Gauging	C Inventory Control	E Vapor Monitoring	G Interstit. Dbl-Wall Monitor	I SIR	K Deferred
B Tank/Line Tightness Testing	D ATG/Auto Line LD	F GW Monitoring	H Interstit. Sec. Con. Monitor	J Other Methods	L Not Listed

Report Generation Date: 7/6/2006 3:33:45 PM

notFacility Summary Report

IMAGED 7/18/2006

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

Submit this Report & Attachments within 45 days of scheduled permanent closure

Failure to submit the Tank Closure Report within 45 days is a violation of rule 165:25-1-55 subject to a $250 penalty.

03600 — 72-03757
CONFIRMATION # BF# FACILITY I.D. #

B&M Oil Co. Inc.
OWNER'S NAME

FORMER CITGO QUIK MART
LOCATION NAME

P.O. Box 9309
MAILING ADDRESS

5102 S. UNION
LOCATION ADDRESS (PHYSICAL LOCATION)

TULSA, OK. 74157
CITY STATE ZIP

TULSA OK
CITY STATE ZIP

TULSA 918-445-0728
COUNTY AREA CODE/TELEPHONE

TULSA 918-445-0728
COUNTY AREA CODE/TELEPHONE

1/26/06
DATE WORK COMPLETED

12/31/05
DATE TANKS LAST USED

NA
NEW INSTALLATION OR NUMBER/SIZE OF ACTIVE TANKS

2-10,000gal 1-6,000gal
NUMBER/SIZE OF TANKS REMOVED

ALL TANKS IN GOOD CONDITION
CONDITION OF REMOVED TANKS & LINES-VISIBLE HOLES?

DESCRIBE DISPOSAL /DISPOSITION OF REMOVED TANKS AND LINES (Tanks cannot be reused unless recertified by manufacturer. Cannot be used as culverts, etc.) ALL TANKS TRANSFERED OFF SITE & DESTROYED (CERTIFICATE OF DESTRUCTION ATTACHED)

- Were samples collected at each elbow, connection in the piping run, or at least every 20 feet YES
- Were samples collected under each tank and down gradient wall? YES
- Was excavated soil removed from site? NO
- Was soil manifested to a permitted landfill? NA
  Name of Landfill
- Was backfill returned to the excavation? YES

NUMBER/SIZE OF TANKS CLOSED-IN-PLACE -- INDICATE TYPE OF INERT MATERIAL USED:

- Assess the site for potential contamination by testing soil and/or groundwater; OCC approved by:
- Were field-screening instruments used? YES
- Type & Model Number: PhotoVac
- Date instrument last calibrated: 1/26/06
- Calibrated to (type gas): Isobutylene

NOTE: If soil or groundwater samples are used for site assessment, person collecting samples must be supervised by a Licensed Remediation Consultant.

MICHAEL DALE — CONESTOGA-ROVERS & ASSOC.
NAME OF LICENSED REMEDIATION CONSULTANT — COMPANY

5121 S. 110TH E. AVE. — TULSA — OK — 74146
ADDRESS — CITY — STATE — ZIP

I certify I have direct knowledge the samples were taken at locations where contamination would most likely have occurred:

CONSULTANT SIGNATURE/LICENSE # — 2/17/06 DATE SIGNED — 918-828-2424 AREA CODE/TELEPHONE

- Attach a site sketch that includes:
  (a) North arrow (b) tank pit location (c) proximity of tank pit to roads, buildings or other landmarks measured in feet; (d) piping layout and pump island location(s) (e) soil sample locations, sample depths, and sample identification.
- Also attach: (a) scheduling letter (b) table of lab results & reports c) waste manifest(s) (d) certificate of destruction for tank(s) (e) photographic documentation (f) description of site activities and observations

PLEASE NOTE THAT INCOMPLETE OR MISSING INFORMATION WILL CAUSE REPORT TO BE RETURNED

TANK REMOVAL ACTIVITIES MUST BE SUPERVISED AT ALL TIMES BY LICENSED UST REMOVER

JOE DELOZIER — FOUR D ENERGY
NAME OF LICENSED REMOVER — COMPANY

RT. 3, BOX 165 — CHELSEA — OK — 74016
ADDRESS — CITY — STATE — ZIP

I certify that I personally supervised all (beginning with breakout of concrete) onsite tank removal activities:

UST REMOVER SIGNATURE/LICENSE # 1571 — 2/16/06 DATE SIGNED — 918-789-2561 AREA CODE/TELEPHONE

OKLAHOMA CORPORATION COMMISSION, PETROLEUM STORAGE TANK DIVISION
P. O. BOX 52000, OKLAHOMA CITY, OK 73152-2000
(405) 521-4683

(Revised 07-2004)

064-3062

IMAGED 7/18/2006

REGISTRATION FOR PETROLEUM STORAGE TANKS

OKLAHOMA CORPORATION COMMISSION
STORAGE TANK PROGRAM
P.O. Box 52000, Room. 250
Oklahoma City, OK 73152-2000

TYPE OF NOTIFICATION	STATE USE ONLY
☐ A. New Facility ☐ B. Amended	ID NUMBER: 7203757
☒ C. Closure	DATE RECEIVED: 3/3/06
Date of Ownership Transfer:	A. Date entered into computer: 7/12/06
Number of Tanks at Facility:	B. Data entry clerk initials: TW
Number of UST's at Facility: 3	C. Owner was contacted to clarify responses.
Number of AST's at Facility:	Comments:

INSTRUCTIONS

Form must be signed at bottom of UST Page 3 or AST Page 3. Please type or print in ink. This form must be completed for each location containing petroleum storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

GENERAL INFORMATION

In 1998 the Legislature combined statutory provisions on underground storage tanks and aboveground storage tanks so that our laws now refer simply to petroleum storage tanks, giving responsibility for their regulation to the Petroleum Storage Tank Division of the Corporation Commission. The forms for the registration of petroleum storage tanks have been revised to have three parts. The first is this page with general information. The second is for listing underground storage tanks and the third for listing aboveground storage tanks. All underground petroleum storage tanks over 110 gallons must be registered except for residential and non-commercial agricultural tanks of less than 1,100 gallons. Owners of aboveground tanks that must be registered are: airports, marinas, retail facilities (service stations) and emergency generators at hospitals, water treatment and sewer treatment plants with a capacity of 110 gallons or more; fleet and commercial facilities and bulk plants of any capacity.

I. OWNERSHIP OF TANK (S) #387

Owner Name (Corporation, Individual, Public Agency, or other entity)
B & M Oil Co. Inc.

P.O. Box 9309
Street Address

Tulsa, OK. 74157
City & State Zip Code

Tulsa (918) 445-0728
County (Area Code) Phone Number

918-445-9256
Fax # E-mail Address

II. LOCATION OF TANK (S)

Facility Name of Company Site Identifier, as applicable
Former Citgo Quick Mart

5102 S. Union Ave.
Street Address (PO Box NOT acceptable)

Tulsa, OK
City & State Zip Code

Tulsa Co.
County

If known, give the geographic location of tanks by degrees, minutes, and seconds. (Example: Lat. 2, 36, 12N Long. 85, 24, 17W)

Latitude: 36° 05' 21.92" N Longitude: 96° 00' 44.30" W

IMAGED 7/18/2006

III. INDIAN LANDS

Tanks are held in Trust by the United States Bureau of Indian Affairs ☐

Tribe or Nation ____

IV. TYPE OF OWNER

☐ Public	☒ Private
(Owned by a government)	(NOT owned by a government)

V. TYPE OF FACILITY

If PUBLIC please mark which type:	If PRIVATE please mark which type:
☐ Federal	☐ Distributor/Retail
☐ State	☒ Private/Retail
☐ County	☐ Private/Non-Retail
☐ Municipal	☐ Residential (includes non-commercial agricultural)
☐ School	☐ Commercial Agricultural
☐ Hospital	☐ Hospital
☐ Agricultural	☐ Marina
☐ Marina	☐ Airport
☐ Airport	

VI. CONTACT PERSON IN CHARGE OF TANKS

Name: Jim Beavers Job Title: Pres. Phone Number: (918) 445-0778

Address: P.O. Box 9309 City: Tulsa State: OK Zip Code: 74157

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with CFR Subpart H.

In Oklahoma this means you are ready and able to pay the deductible amount of $5,000.00 on any cleanup of any pollution caused by a leaking storage tank.

(Financial Responsibility must be met and acknowledged by checking this box.) ☒

IMAGED 7/18/2006

I. UNDERGROUND STORAGE TANKS ATTACHMENT

(Complete for each tank at this location)

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No.	Tank No.
1. Status of Tank (mark only one)					
Currently in Use	☐	☐	☐	☐	☐
Permanent Closure (Complete section II, UST Page 2)	☒	☒	☒	☐	☐
2. Date of Installation (month/year)	4/1980	4/1966	4/1960		
2a. Is Tank Compartmentalized?	☐Yes ☒No	☐Yes ☒No	☐Yes ☒No	☐Yes ☐No	☐Yes ☐No
3. Estimated Total Capacity (gallons)	6,000 gal	10,000 gal	10,000 gal		
4. Material of Construction (mark all that apply)					
Coated or Bare Steel	☐	☐	☐	☐	☐
Cathodically Protected Steel	☒	☒	☒	☐	☐
Composite (Steel with Fiberglass)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Lined Interior	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Polyethylene Tank Jacket	☐	☐	☐	☐	☐
Excavation Liner	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please specify					
5. Piping (Material) (mark all that apply)					
Steel (Must also be cathodically protected)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☒	☒	☒	☐	☐
Copper (Must also be cathodically protected)	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Secondary Containment	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					

IMAGED 7/18/2006

UNDERGROUND STORAGE TANKS ATTACHMENT
(Complete for each tank at this location)

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No.	Tank No.
6. Piping (Mark all that apply)					
Pressure	☒	☒	☒	☐	☐
Suction: No check valve at tank	☐	☐	☐	☐	☐
Suction: Check valve at tank	☐	☐	☐	☐	☐

Pressure piping must have continuous line leak detection (mechanical or electronic). Suction piping, no check valve at tank (verifiable), does not require line tightness tests or monthly monitoring of line. Suction piping with check valve at tank must be tightness tested every 3 years.

7. Substance Currently or Last Stored in Greatest Quantity					
Gasoline	☒	☒	☒	☐	☐
Diesel	☐	☐	☐	☐	☐
Gasohol	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Heating Oil	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please specify	_____	_____	_____	_____	_____

II. TANKS OUT OF USE OR CHANGE IN SERVICE

1. Closing of Tank	☐Temporary ☒Permanent	☐Temporary ☒Permanent	☐Temporary ☒Permanent	☐Temporary ☐Permanent	☐Temporary ☐Permanent
A. Estimated date last used (mo./date/yr.)	12/31/05	12/31/05	12/31/05	_____	_____
B. Estimated date tank closed (mo./date/yr.)	1/26/06	1/26/06	1/26/06	_____	_____
C. Tank & all piping removed from ground	☒	☒	☒	☐	☐
D. Tank cleaned & closed in ground	☐	☐	☐	☐	☐
E. In-place closure pre-approved	☐	☐	☐	☐	☐
F. Tank filled with inert material	☐	☐	☐	☐	☐
Describe type of material used					
G. Change in service	☐	☐	☐	☐	☐
2. Date Site Assessment Completed	2/9/06	2/9/06	2/9/06		
Evidence of a leak detected?	☐Yes ☒No	☐Yes ☒No	☒Yes ☐No	☐Yes ☐No	☐Yes ☐No

IMAGED 7/18/2006

UNDERGROUND STORAGE TANKS

III. CERTIFICATION OF COMPLIANCE

(Complete Installer information only for newly installed and newly upgraded tanks at this location)

OATH: I certify the information concerning installation that is provided in UST Section I is true to the best of my belief and knowledge.

Installer Name: _____ License #: _____

Position: _____ Company: _____

Signature: _____ Date: _____

Cathodic Protection Installer Signature: _____

NACE Certification #: NACE Certification Title:

Tank Identification Number	Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
1. Release Detection (Mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	☐		☐		☐		☐		☐	
B. Tightness testing	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Monthly Inventory reconciliation	☐		☐		☐		☐		☐	
D. Automatic tank gauging	☐		☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
G. Interstitial monitoring Double walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring or Secondary containment	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Automatic line leak detectors		☐		☐		☐		☐		☐
J. Statistical Inventory Reconciliation	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2. Spill and Overfill Protection										
A. Overfill device installed		☐		☐		☐		☐		☐
B. Spill device installed		☐		☐		☐		☐		☐

IV. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission)

J.R. Bowers Title: Pres.

(Print) Name of owner or owner's authorized representative

Signature Date: 2/22/06

(Submit this form with original signature only.)

OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE MUST SIGN UST PAGE 3 OR AST PAGE 3

IMAGED 7/18/2006

CONESTOGA-ROVERS & ASSOCIATES

5121 South 110th East Avenue
Tulsa, OK 74146
Telephone: (918) 828-2424 Fax: (918) 828-0202
http://www.craworld.com

March 1, 2006

Ms. Terri Roberts
Oklahoma Corporation Commission
Petroleum Storage Tank Division – Compliance
Jim Thorpe Building, Room 238
Oklahoma City, OK 73152-2000

RE: UST Removal, Former Citgo Quick Mart, 5102 S. Union Ave., Tulsa, Oklahoma
OCC Confirmation Number: 03600, Facility ID: 72-03757

Dear Ms. Roberts,

Please find the following description of the site activities and observations for the above referenced UST closure completed on January 25th and 26th, 2006.

Conestoga-Rovers & Associates (CRA) notified the Oklahoma Corporation Commission (OCC) 14 days prior to the planned UST closure activities. A request was made to "Call Okie" for lines to be located 48-hours prior to the excavation and the OCC Regulatory was notified 48-hours prior to the excavation. Saw-cuts were made along the perimeter of the UST basin and piping runs. The licensed UST removal crew (Four D Energy, Chelsea, Oklahoma) began breaking concrete over the tankhold on Monday, January 25, 2006. Operations took two days to complete.

The facility summary indicated two 10,000 gallon and one 6,000 gallon USTs located on the property. The tanks were all cylindrical steel tanks with fiberglass reinforced insulation. All three tanks had been used to store unleaded gasoline. Pressurized air was blown through the fiberglass reinforced plastic product lines back to the UST's prior to removal to evacuate residual fuel. All liquids were removed from the tanks prior to the oxygen evacuation with dry ice. Oxygen levels were determined below explosive limits with an LEL meter prior to excavation. Backfill from the UST basin was placed on plastic sheeting. Approximately 350 cubic yards of backfill was removed from the tankhold. Since the tankhold was smaller than originally measured, only seven composite samples were collected from the old backfill. The samples were hand delivered to Green Country Labs of Tulsa, Oklahoma for BTEX and TPH(GRO) analysis. The UST backfill worksheet is included in the attachments.

A soil sample was collected in the native soil beneath each UST in the area below each fill port. One sidewall sample was collected from the down-gradient south wall. One soil sample was also collected beneath each of the pump dispensers to satisfy the one-per 20-foot rule. A total of seven soil samples were collected and submitted to the lab for detailed chemical analysis. UST basin water was not collected because the tankhold was dry.

All three UST's appeared in good condition. No holes or leaks were visible. No free product was observed in either the UST basin or piping runs, however, a strong hydrocarbon odor was noticed beneath pump dispenser pad PL-4 in the native soil. The tanks were loaded onto flatbed trucks and taken off-site for destruction and disposal. The electrical conduits from the former site facility to the UST basin

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were cut off and filled with foam sealant to prevent potential vapors from entering the building. The fiberglass reinforced plastic product lines were removed from the piping runs.

CRA received the backfill analytical results indicating no presence of excessive chemicals of concern. The backfill results were faxed to Phil Hudnall, PSTD Analyst, OCC. Mr. Hudnall gave approval to place the old backfill material back in the basin via e-mail. The old backfill was placed in the tankhold and fresh 1 ½ -inch aggregate rock was placed on top to make up for the displaced UST's. Fresh "crush & run" rock was compacted to 95% in two, one-foot lifts on Thursday, January 26, 2006.

Analytical results for the closure sampling indicate that one of the UST basin closure sample was above OCC action levels. The sample collected beneath UST-3 had a benzene concentrations of 3.71 mg/kg. One sample collected near former pump dispenser PL-4 had a benzene concentration of 12.3 mg/kg. Benzene was also detected in samples collected from the piping run at FL-1, FL-2, FL-3, FL-5 and FL-7, however, the analytical detection limits were higher than the OCC action levels. Therefore, it is unknown whether these concentration actually exceed the OCC action levels. Toluene exceeded the action levels in the piping trench collected at FL-4 at a concentration of 562 mg/kg. Ethylbenzene was detected at a concentration of 17.9 mg/kg and 131 mg/kg from samples collected along the piping trench at FL-4 and UST-3, respectively. Xylenes were detected at a concentration of 707 mg/kg in soil samples collected at FL-4.

Total petroleum hydrocarbons (TPH) gasoline range organics (GRO) was detected in soil samples collected from UST-3, DGW-1, along the product piping runs at FL-1, FL-2, FL-3, FL-4, FL-5 and FL-7 at concentrations of 1,450 mg/kg, 64.2 mg/kg, 443 mg/kg, 86.7 mg/kg, 423 mg/kg, 6,490 mg/kg, 403 mg/kg, and 81.9 mg/kg, respectively. A site map is included as Figure 1 and a spreadsheet of the chemical analysis as Table 1. A release report was faxed to Dave Poulsen (OCC) on Friday, February 10, 2006.

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Michael Dale
Project Manager/Geologist
UST Consultant #166

IMAGED 7/18/2006

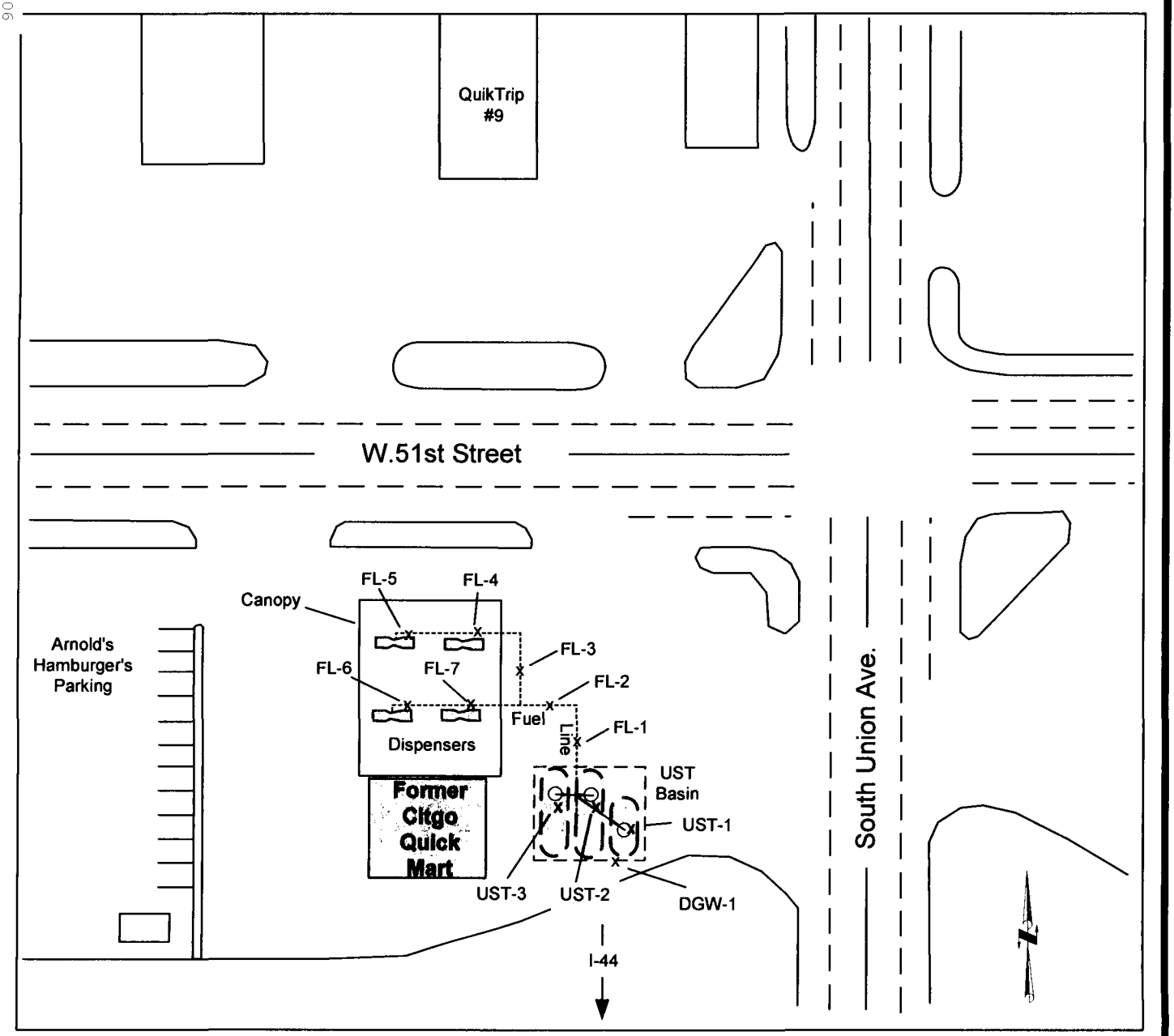

FIGURE 1
Site Map

CONESTOGA-ROVERS & ASSOCIATES

Conestoga-Rovers & Associates
5121 South 110th East Avenue, Tulsa, OK 74147
Phone 918.848.2424 - Fax 918.848.0202
www.CRAworld.com

FORMER CITGO QUICK MART
5102 S. UNION AVE.
TULSA, OKLAHOMA

FILE NAME: CITGO SAMPLOC.VSD | PROJECT NO.: 043965 | DATE: 2/9/02 | DRAWN BY: MAD

IMAGED 7/18/2006

TABLE 1 - SOIL ANALYTICAL RESULTS

FORMER CITGO QUICK-MART
5102 S. UNION AVE.
TULSA, OKLAHOMA
UST CLOSURE
FACILITY ID: 72-03757 UST CLOSURE CONFIRMATION 03600

Concentrations in milligrams per kilogram (mg/kg)							
Sample Number	Date Sampled	PID (ppm)	Benzene	Toluene	Ethyl-benzene	Xylene(s)	TPH (GRO)
OCC Action Levels (Soil)			*0.5*	*40*	*15*	*200*	*50*
UST-1	1/25/2006	126	<0.0604	<0.0604	<0.0604	<0.151	<0.604
UST-2	1/25/2006	22	<0.0114	<0.0114	<0.0114	<0.0285	<0.114
UST-3	1/25/2006	1,268	**3.71**	<2.98	**17.9**	36.3	**1,450**
DGW-1	1/25/2006	374	<0.59	<0.59	<0.59	<1.47	**64.2**
FL-1	1/26/2006	820	**<2.44**	<2.44	5.59	7.7	**443**
FL-2	1/26/2006	<2,000	**<0.621**	<0.621	<0.621	2.3	**86.7**
FL-3	1/26/2006	1,610	**<1.2**	<1.2	4.22	<2.99	**423**
FL-4	1/26/2006	<2,000	**12.3**	**562**	**131**	**707**	**6,490**
FL-5	1/26/2006	526	**<2.19**	<2.19	3.43	<5.47	**403**
FL-6	1/26/2006	392	<0.0566	<0.0566	<0.0566	<0.142	0.7
FL-7	1/26/2006	150	<0.613	<0.613	0.715	<1.53	**81.9**

BOLD indicates concentrations above OCC action levels
Note: concentrations of some samples shown as non-detect were above the action levels.

IMAGED 7/18/2006

	PHOTO 01 - January 25, 2006 View looking west across South Union Ave. at former Citgo Quick Mart. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 02 - January 25, 2006 Excavating concrete from UST basin. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 03 – January 25, 2006 Removing concrete and debris from UST basin. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

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	PHOTO 04 - January 25, 2006 Sanitary sewer line south of UST basin (marked in green). Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 05 - January 25, 2006 Removing UST basin backfill to plastic sheeting. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 06 – January 25, 2006 View of area where fuel dispensers were located.. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

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	PHOTO 07 - January 25, 2006 Breaking concrete around former dispenser pumps to expose and remove fuel lines. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 08 - January 25, 2006 Stockpiling debris. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 09 – January 25, 2006 Uncovering 6,000 gallon UST #1. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

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	PHOTO 10 - January 25, 2006 6,000 gallon steel UST #1 loaded to trailer for transport and destruction. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 11 - January 25, 2006 Area beneath UST #1 in UST basin. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 12 – January 25, 2006 Uncovering 10,000 gallon UST #2. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

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	PHOTO 13 - January 25, 2006 Disconnecting fuel pump from UST #2. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 14 - January 25, 2006 Pulling submersible pump from UST #2. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 15 – January 25, 2006 Loading steel UST #2 for transports offsite and destruction. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

IMAGED 7/18/2006

	PHOTO 16 - January 25, 2006 Clearing debris from 10,000 gallon steel UST #3. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 17 - January 25, 2006 Removing steel UST #3 from UST basin. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 18 – January 25, 2006 View of area beneath UST #3 in UST basin. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

IMAGED 7/18/2006

	PHOTO 19 - January 26, 2006 Removing fiberglass fuel product lines. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 20 - January 26, 2006 Removing fiberglass fuel product lines. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 21 – January 26, 2006 Removing fiberglass fuel product lines. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

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IMAGED 7/18/2006

PHOTO 22 - January 26, 2006

Backfilling UST basin.

Former Citgo Quick Mart
5102 S. Union Ave.
Tulsa, Oklahoma

PHOTO 23 - January 26, 2006

Saw-cutting around former product dispensers.

Former Citgo Quick Mart
5102 S. Union Ave.
Tulsa, Oklahoma

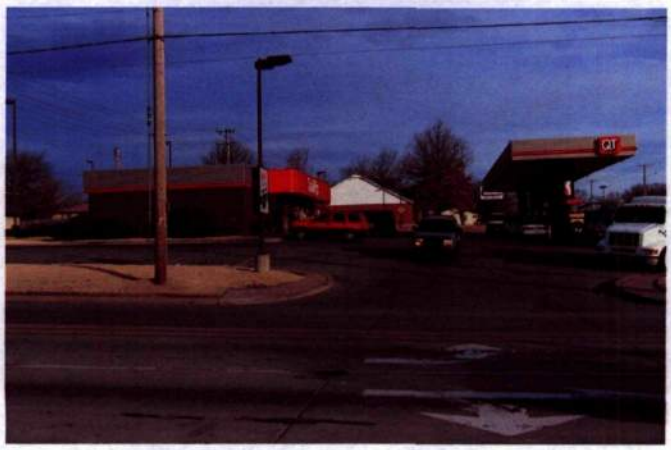


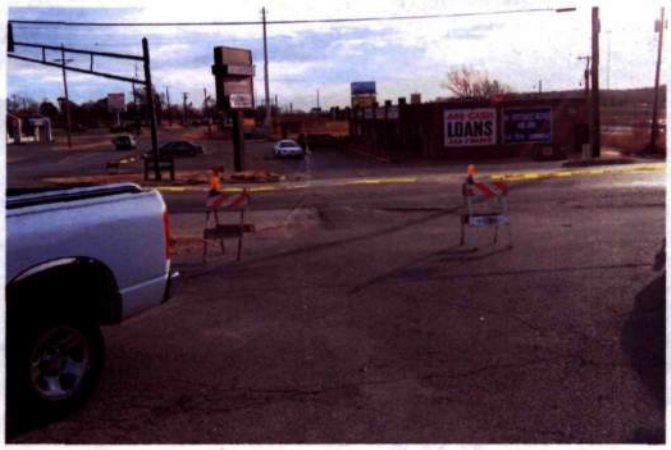
PHOTO 24 – January 26, 2006

View of retail gasoline and convenience store north of former Citgo Quick Mart.

Former Citgo Quick Mart
5102 S. Union Ave.
Tulsa, Oklahoma

CONESTOGA-ROVERS
& ASSOCIATES

IMAGED 7/18/2006

	PHOTO 25 - January 26, 2006 View looking east at retail strip shopping and commercial businesses. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 26 - January 26, 2006 View looking south at the Interstate 44 throroughfare. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma
	PHOTO 27 – January 26, 2006 View looking west at Arnold's Hamburger restaruant. Former Citgo Quick Mart 5102 S. Union Ave. Tulsa, Oklahoma

IMAGED 7/18/2006

CONESTOGA-ROVERS & ASSOCIATES

5121 South 110th East Avenue
Tulsa, OK 74146
Telephone: (918) 828-2424 Fax: (918) 828-0202
www.CRAworld.com

FACSIMILE

DATE: Monday, January 23, 2006
REFERENCE NO.:
TO: Neil Garrett, Phil Hudnall
FACSIMILE NO.: 405-521-4945

FROM: Mike Dale

Total Pages (Including Cover Page) 3

☐ **Facsimile is Receiver's Original**

Original Will Follow By:

☐ Mail
☐ Overnight Courier
☐ E-mail

MESSAGE

Neil and/or Phil,

Here's the map and Backfill Worksheet for the UST closure at the former Citgo Quick Mart, 5102 S. Union Ave.,Tulsa, OK. OCC Confirmation # 03600, Fac ID 72-03757.

I will be in the field all day today and tomorrow but can be reached by cell at 918-430-5605. Thanks

-md

FAXED 1/23/06

THIS FAX TRANSMISSION IS INTENDED ONLY FOR THE ADDRESSEE(S) SHOWN ON THIS FORM AND MAY CONTAIN CONFIDENTIAL OR PRIVILEGED INFORMATION FROM CONESTOGA-ROVERS & ASSOCIATES (CRA). ANY DISCLOSURE, COPYING, DISTRIBUTION, OR USE OF THE CONTENTS OF THIS FAX, WITHOUT THE CONSENT OF CRA, IS PROHIBITED. IF YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE (COLLECT).

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IMAGED 7/18/2006

Backfill Worksheet

DATE:			January 23, 2006		Done by Mike Dale
Case #			confirmation ID 03600		
Facility File #			72-03757		
Site Name			Former CitGo Quick Mart		
Street Address			5102 S. Union		
City			Tulsa, OK		
PIT	Length	Width	Depth		Volume of Pit
Tank Pit #1	36	30	12		480
	Tank #1	Tank #2	Tank #3	Tank #4	Total Volume of Tanks
Volume of Tanks	6,000	10,000	10,000		129
In Gallons			**Volume of soil = Pit volume less tank volume**		351
PIT	Length	Width	Depth		Volume of Pit
Tank Pit #2					0
	Tank #1	Tank #2	Tank #3	Tank #4	Total Volume of Tanks
Volume of Tanks					0
In Gallons			**Volume of soil = Pit volume less tank volume**		0

Repeat as necessary for the number of pits and tanks

Total amount of soil to be removed from tank pits #1,#2,#3, 351

	Total length of Trenches	Width	Depth	Volume of Trenches
Product Lines	140	3	3	47

Total amount of soil to be removed from Pits and Trenches 398

Volume of soil to be returned: If different from amount hauled off attach explanation.

Costs per yard/ton to dispose of soil including loading, mileage and landfill charges. Set out details on an attached sheet.

Costs per yard/ton to return soil including loading, mileage and any other charges. Set out details on an attached sheet.

Total sampling costs: Number of samples X costs per sample

Costs for professional time: See NOTE #1

Total costs for above activities 0

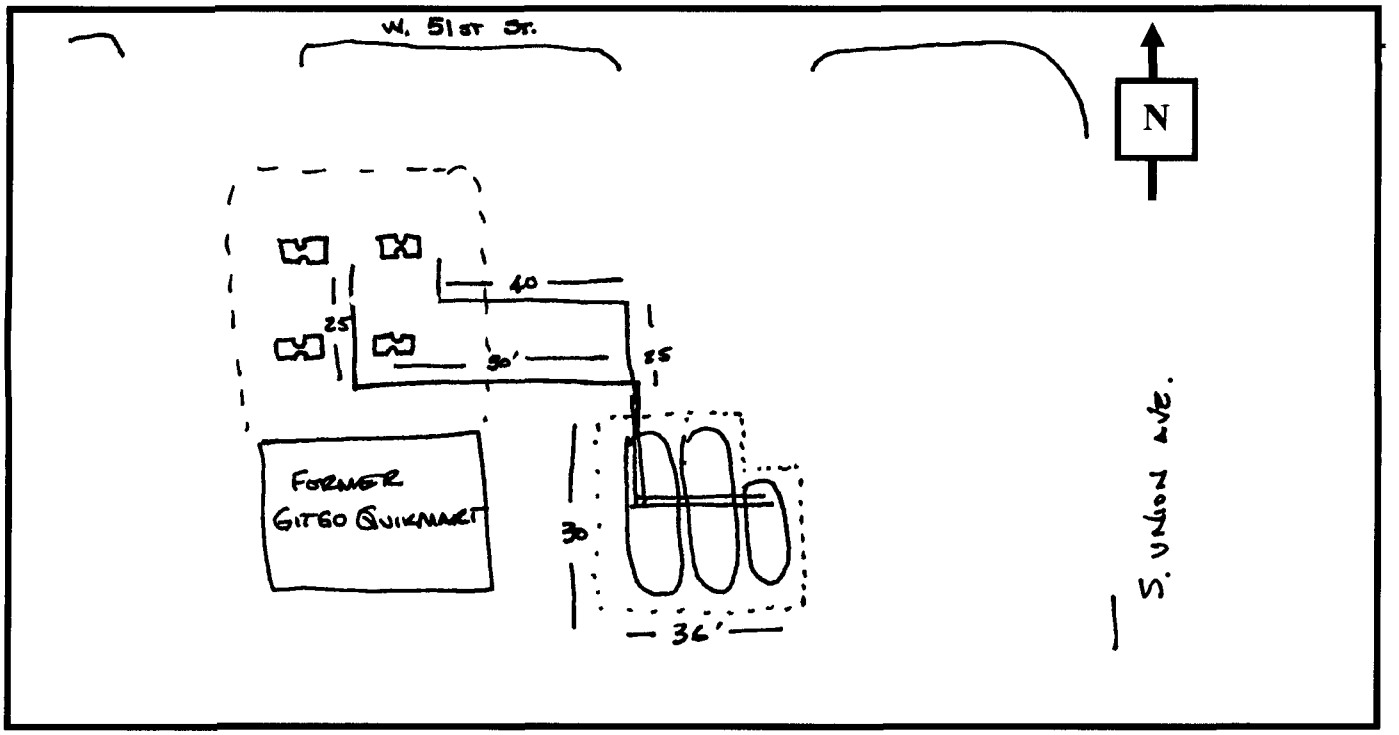
NOTE 1: Only a minimal amount of time will be allowed for professional time. The consultant is already at the site for the tank pull. Attach break down of hours.

NOTE 2: Soil returned should equal soil removed. Volume of tanks will not be returned. If new tanks are being returned to a pit, the volume of soil removed from that pit will not be reimbursed as that is a regular business expense.

NOTE #3: For any exceptions attach a written explanation. If any local, state, or federal agency or a landfill has special requirements, furnish the name, phone number, and contact person in that agency.

IMAGED 7/18/2006

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
BACKFILL WORKSHEET



In the space above sketch the location of site structures, tank pit(s), product lines, known utilities and excavation area(s). Show receptor locations described below. Label pit dimensions, tank sizes and line length. All dimensions must be tape-measured.

Provide the following:

A. Sample lab results and chain of custody.

B. List obviously impacted or potentially impacted (i.e. down gradient water well) receptors.

C. Describe the tank pit wall lithology.

D. Recommendation as to disposition of the backfill.

Recommendation: ☒ Approved ☐ Denied

Approved Action

☐ Haul off backfill and submit Purchase Order for disposal. ☐ Replace backfill in tank / line excavation.

IMAGED 7/18/2006

Certificate of Destruction

Date: 2-17-06

Number: 600700

Scrapping/Disposal Company:

Four-D Energy Inc.
P.O. Box 84
Chelsea, Oklahoma, 74016

Site of Destruction:

*Four-D Energy, Inc.
Route 3
Chelsea, OK 74016

Tank Removal Contractor:
Four-D Energy, Inc.
PO Box 84
Chelsea, OK 74016

Tank Identification:

Tank No: One, Two & Three all 3 steel

Dimensions: #1 = 10,000 gallon 10' X 18'
#2 = 10,000 gallon 10' X 18'
#3 = 6,000 gallon 8' X 16'

Location B & M Oil Company
Address 5102 S. Union

City / State Tulsa, OK

Destruction Date: 1-25-06

I certify that the above described tank (s) has been rendered unusable for the storage of any fluids, and all removed fluids, sludges, and the tanks were disposed of in accordance with all applicable local, state, and federal regulations.

Marilyn DeLozier

By: Marilyn DeLozier, Secretary

IMAGED 7/18/2006

E-MAILED TO OCC
FAXED TO J. [illegible]

FAXED 2/10/06

Dale, Michael

To: d.poulsen@occemail.com
Cc: Phillip Hudnall; Neil Garrett; Howard, Kevin
Subject: RELEASE REPORT
Attachments: Closure analytical.pdf; CItgo UST Anal.pdf; site map 2.pdf

SITE: Former Citgo Quick-Mart
ADDRESS: 5102 S. Union Ave.
CITY, STATE: Tulsa, OK
FACILITY ID: 72-03757
UST CLOSURE CONF. NO.: 03600

Dear Mr. Poulsen,

I am reporting a release of fuel on behalf of B & M Oil Company in association with UST Closure activities at the above referenced site. On January 25th and 26th, CRA was the on-site UST consultant for tank closure. Confirmation closure sample were collected in the native soil beneath each of the three USTs and the down-gradient sidewall. Sample were also collected in native soil every 20 feet of the product piping trenches. A total of 11 closure samples were collected. A map of the site is attached with this report.

Analytical results indicate concentrations of benzene exceeding the OCC action levels beneath UST #3 and northeast dispenser, FL-4 at concentrations of 3.71 mg/kg and 12.3 mg/kg, respectively. Benzene may have also exceeded the action levels in samples collected from FL-1, FL-2 and FL-3 as the minimum analytical detection limits were above the OCC action levels.

Ethylbenzene exceeded the action levels in soil samples from UST-1 and FL-4 at concentrations of 17.9 mg/kg and 131 mg/kg, respectively. Total Petroleum Hydrocarbons-gasoline range organics (TPH-GRO) exceeded the action levels in soil samples collected from UST-1, DGW-1, FL-1, FL-2, FL-3, FL-4, FL-5 and FL-7 at concentrations of 1,450 mg/kg, 64.2 mg/kg, 443 mg/kg, 86.7 mg/kg, 423 mg/kg, 6,490 mg/kg, 403 mg/kg and 81.9 mg/kg, respectively. The anlytical data and chain of custody are attached. An analytical summary is also attached.

The source of the release is unknown. CRA is currently having the tank owner check his compliance and inventory records. Please contact me with any questions as CRA awaits your reply.

MICHAEL DALE
Conestoga-Rovers & Associates, Inc. (CRA)
5121 S. 110th E. Ave.
Tulsa, Oklahoma 74146
office: 918.828.2424
fax: 918.828.0202
cell: 918.430.5605
http://www.CRAworld.com

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IMAGED 5/13/2008

TM 5/2/08

TANK CLOSURE SUMMARY SHEET

FACILITY ID NUMBER:	**72-14107**	**New Owner?**	**No**
CASE NUMBER (if applicable):	**N/A**	**New Tanks?**	**No**

Facility Address: Green Metal Fabricators, 906 W. Skelly Dr., Tulsa, OK

Consultant: Scott Dixon, Enviro-Tec America

# of Tanks at facility (removed):	**1**
# of Tanks at facility (registered):	**1**
# of USTs being closed in place:	**0**

OWNER/OPERATOR:

NAME	JOB TITLE	OWNER ADDRESS	PHONE #
Green Metal Fabricators Attn: Buel Avery	**Vice-President**	**906 W. Skelly Dr. Tulsa, OK 74107**	**918-446-1571**

TANK ID #:	TANK NO.	TANK NO.	TANK NO.	TANK NO.	TANK NO.
	1				
ESTIMATED DATE LAST USED:	**2/08**				
FAC DATABASE	**2,000**				
AFTER CLSR REVIEW	**2,000**				
TANK REMOVED (Date):	**2/28/08**				
TANK CLSD IN GROUND (Date):	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
TANK FILLED WITH:	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

SCHEDULED CLOSURE:	**Confirmation #04232**
SITE ASSESSMENT COMPLETED:	**Yes**
TESTING SOIL OR GW:	**Soil**
EVIDENCE OF LEAK DETECTED:	**No**

Gerald Haney

Gerald Haney
Technical Staff Reviewer

March 21, 2008
Date

IMAGED 5/13/2008

OB ANTHONY
Commissioner

JEFF CLOUD
Commissioner

JIM ROTH
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 521-4683 FAX: (405) 521-4945

JIM THORPE BLDG, ROOM 231 • P.O. BOX 52000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

March 21, 2008

Green Metal Fabricators
Attn: Buel Avery
906 W. Skelly Dr.
Tulsa, OK 74107

Reference: Permanent closure of (1) 2,000 gallon Underground Storage Tank(s)
Location: Green Metal Fabricators, 906 W. Skelly Dr., Tulsa, OK
Facility #: 72-14107

Dear Sir,

Enviro-Tec America submitted a complete tank closure report to the OCC on March 18, 2008. The report indicates the above-referenced tanks were permanently removed from the ground on February 28, 2008.

After review of the data submitted, the OCC believes the levels of the chemicals of concern in the soil and groundwater at this site pose no harm to human health, safety, or the environment. The subject tanks are hereby considered permanently closed in accordance with OCC regulations. Should future environmental problems occur, which the OCC determines may be related to this site; additional investigation and corrective action may be required in accordance with State Law.

If you have any questions regarding this matter, please contact me at (405) 521-2488.

Sincerely yours,

Gerald Haney
Environmental Compliance Analyst

cc: Facility file # 72-14107
Scott Dixon, Enviro-Tec America

IMAGED 5/13/2008

Facility Summary for 7214107

Owner Name and Address: GREEN METAL FABRICATORS 906 W SKELLY DRIVE Tulsa OK 74107 Owner Phone: (918) 446-1571

Facility ID	Location Name	Location Street Address	Location City	Zip	Facility Phone
7214107	GREEN METAL FABRICATORS	906 W SKELLY DRIVE	Tulsa	74157	

Tank ID / AST Status	Installed Age	Product Capacity	Tank Mat'l of Construction Secondary Option	Piping Material Secondary Option	Piping Type Exempt	Tank Release Detection	FR Met Over/Spill/CP
1 No Currently In Use		Gasoline 2,000	Asphalt Coated or Bare Steel Lined Interior	No Piping None	Safe Suction No	A B C D E F G H I J K L B D E F G H I J K L	Yes Yes Yes Yes

Tank/Piping Release Detection Codes

A Manual Tank Gauging	C Inventory Control	E Vapor Monitoring	G Interstit. Dbl-Wall Monitor	I SIR	K Deferred
B Tank/Line Tightness Testing	D ATG/Auto Line LD	F GW Monitoring	H Interstit. Sec. Con. Monitor	J Other Methods	L Not Listed

Report Generation Date: 3/21/2008 2:51:50 PM

notFacility Summary Report

IMAGED 5/13/2008

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

Submit this Report & Attachments within 45 days of scheduled permanent closure

Failure to submit the Tank Closure Report within 45 days is a violation of rule 165:25-1-55 subject to a $250 penalty.

04232 | | 72-14107
CONFIRMATION # | BF# | FACILITY I.D. #

GREEN METAL FABRICATORS
OWNER'S NAME

906 W. Skelly Drive
MAILING ADDRESS

Tulsa | OK | 74107
CITY | STATE | ZIP

Tulsa | 918-446-1571
CITY | AREA CODE/TELEPHONE

GREEN METAL FABRICATORS
LOCATION NAME

906 W. Skelly Drive
LOCATION ADDRESS (PHYSICAL LOCATION)

Tulsa | OK | 74107
CITY | STATE | ZIP

Tulsa | 918-446-1571
COUNTY | AREA CODE/TELEPHONE

2/28/08 | 2/08 | 0
DATE WORK COMPLETED | DATE TANKS LAST USED | NEW INSTALLATION OR NUMBER/SIZE OF ACTIVE TANKS

(1) 2,000-gals | Good / No
NUMBER/SIZE OF TANKS REMOVED | CONDITION OF REMOVED TANKS. ANY VISIBLE HOLES?

DESCRIBE DISPOSAL /DISPOSITION OF REMOVED TANKS AND LINES (Tanks cannot be reused unless recertified by manufacturer. Cannot be used as culverts, etc.) Cert. Fcate of destruction received

- Were samples collected at each elbow, connection in the piping run, or at least every 20 feet? yes
- Were samples collected under each tank and down gradient wall? yes
- Was excavated soil removed from site? No
- Was soil manifested to a permitted landfill? N/A
  Name of Landfill
- Was backfill returned to the excavation? yes

NUMBER/SIZE OF TANKS CLOSED-IN-PLACE -- INDICATE TYPE OF INERT MATERIAL USED: 0

- Assess the site for potential contamination by testing soil and/or groundwater; OCC approved by:
- Were field-screening instruments used? yes
- Type & Model Number: OVM model 580B
- Date instrument last calibrated: 2/28/08
- Calibrated to (type gas): isobutylene 100 ppm

NOTE: If soil or groundwater samples are used for site assessment, person taking samples must be supervised by a Licensed Remediation Consultant.

Scott Dixon
NAME OF LICENSED REMEDIATION CONSULTANT

ENVIRO-TECAMERICA, INC.
COMPANY

4528 S. Sheridan Suite 211A
ADDRESS

Tulsa | OK | 74145
CITY | STATE | ZIP

I certify the samples were taken at locations where contamination would most likely have occurred:

Scott Dixon 183
CONSULTANT SIGNATURE/LICENSE #

3/7/08
DATE SIGNED

918-664-7799
AREA CODE/TELEPHONE

- Attach a site sketch that includes:
  (a) North arrow (b) tank pit location (c) proximity of tank pit to roads, buildings or other landmarks measured in feet; (d) piping layout and pump island location(s) (e) soil sample locations, sample depths, and sample identification.
- Also attach: (a) scheduling letter (b) table of lab results & reports (c) waste manifest(s) (d) certificate of destruction for tank(s) (e) photographic documentation (f) description of site activities and observations (g) OCC registration form.

PLEASE NOTE THAT INCOMPLETE OR MISSING INFORMATION WILL CAUSE REPORT TO BE RETURNED

TANK REMOVAL ACTIVITIES MUST BE SUPERVISED AT ALL TIMES BY LICENSED UST REMOVER

Rick Seitsinger
NAME OF LICENSED REMOVER

ADAIRE Construction
COMPANY

PO Box 27
ADDRESS

Skiatook | OK | 74070
CITY | STATE | ZIP

I certify that I personally supervised all (beginning with breakout of concrete) onsite tank removal activities:

[signature] 594
UST REMOVER SIGNATURE/LICENSE #

2/28/08
DATE SIGNED

918-724-3920
AREA CODE/TELEPHONE

OKLAHOMA CORPORATION COMMISSION, PETROLEUM STORAGE TANK DIVISION
P. O. BOX 52000, OKLAHOMA CITY, OK 73152-2000
(405) 521-4683

(Revised 07-2006)

IMAGED 5/13/2008

REGISTRATION FOR PETROLEUM STORAGE TANKS

OKLAHOMA CORPORATION COMMISSION
STORAGE TANK PROGRAM
P.O. Box 52000, Room. 250
Oklahoma City, OK 73152-2000

TYPE OF NOTIFICATION	STATE USE ONLY
☐ A. New Facility ☐ B. Amended	ID NUMBER: 7214107
☒ C. Closure	DATE RECEIVED: 3/18/08
Date of Ownership Transfer:	A. Date entered into computer: 5/2/08
Number of Tanks at Facility: 1	B. Data entry clerk initials: TW
Number of UST's at Facility: 1	C. Owner was contacted to clarify responses.
Number of AST's at Facility: 0	Comments:

INSTRUCTIONS

Form must be signed at bottom of UST Page 3 or AST Page 3. Please type or print in ink. This form must be completed for

GENERAL INFORMATION

I. OWNERSHIP OF TANK (S)

Green Metal Fabricators

906 W. Skelly Drive
Street Address

Tulsa, OK — **74107**
City & State — Zip Code

Tulsa — **(918) 446-1571**
County — (Area Code) Phone Number

N/A — **N/A**
Fax # — E-mail Address

II. LOCATION OF TANK (S)

Green Metal Fabricators

906 W. Skelly Drive
Street Address (PO Box NOT acceptable)

Tulsa, OK — **74107**
City & State — Zip Code

Tulsa — **918-446-1571**
County

If known, give the geographic location of tanks by degrees, minutes, and seconds. (Example: Lat. 2, 36, 12N Long. 85, 24, 17W)

Latitude: **N/A** Longitude: **N/A**

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III. INDIAN LANDS

Tanks are held in Trust by the United States Bureau of Indian Affairs ☐

Tribe or Nation _____

IV. TYPE OF OWNER

☐ Public	☒ Private
(Owned by a government)	(NOT owned by a government)

V. TYPE OF FACILITY

If PUBLIC please mark which type:	If PRIVATE please mark which type:
☐ Federal	☐ Distributor/Retail
☐ State	☐ Private/Retail
☐ County	☒ Private/Non-Retail
☐ Municipal	☐ Residential (includes non-commercial agricultural)
☐ School	☐ Commercial Agricultural
☐ Hospital	☐ Hospital
☐ Agricultural	☐ Marina
☐ Marina	☐ Airport
☐ Airport	

VI. CONTACT PERSON IN CHARGE OF TANKS

Name: **Buel Avery** Job Title: **Vice President** Phone Number: **(918) 446-1571**

Address: **906 W. Skelly Drive** City: **Tulsa** State: **OK** Zip Code: **74107**

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with CFR Subpart H.

☒

IMAGED 5/13/2008

I. UNDERGROUND STORAGE TANKS ATTACHMENT

(Complete for each tank at this location)

Ta Identification Number	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (mark only one)					
Currently in Use	☐	☐	☐	☐	☐
Permanent Closure (Complete section II, UST Page 2)	☒	☐	☐	☐	☐
2. Date of Installation (month/year)	U/K				
2a. Is Tank Compartmentalized?	☐Yes ☒No	☐Yes ☒No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
3. Estimated Total Capacity (gallons)	2,000				
4. Material of Construction (mark all that apply)					
Coated or Bare Steel	☒	☐	☐	☐	☐
Cathodically Protected Steel	☐	☐	☐	☐	☐
Composite (Steel with Fiberglass)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Lined Interior	☒	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Polyethylene Tank Jacket	☐	☐	☐	☐	☐
Excavation Liner	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please specify					
5. Piping (Material) (mark all that apply)					
Steel (Must also be cathodically protected)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Copper (Must also be cathodically protected)	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Secondary Containment	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	None				

IMAGED 5/13/2008

UNDERGROUND STORAGE TANKS ATTACHMENT
(Complete for each tank at this location)

Tank Identification Number	Tank No. 1	Tank No.	Tank No.	Tank No.	Tank No.
6. Piping (Mark all that apply)					
Pressure	☐	☐	☐	☐	☐
Suction: No check valve at tank	☒	☐	☐	☐	☐
Suction: Check valve at tank	☐	☐	☐	☐	☐
Pressure piping must have continuous line leak detection (mechanical or electronic). Suction piping, no check valve at tank (verifiable), does not require line tightness tests or monthly monitoring of line. Suction piping with check valve at tank must be tightness tested every 3 years.					
7. Substance Currently or Last Stored in Greatest Quantity					
Gasoline	☒	☐	☐	☐	☐
Diesel	☐	☐	☐	☐	☐
Gasohol	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Heating Oil	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please specify	_____	_____	_____	_____	_____

II. TANKS OUT OF USE OR CHANGE IN SERVICE

1. Closing of Tank	☐Temporary ☒Permanent	☐Temporary ☒Permanent	☐Temporary ☐Permanent	☐Temporary ☐Permanent	☐Temporary ☐Permanent
A. Estimated date last used (mo./date/yr.)	02/08				
B. Estimated date tank closed (mo./date/yr.)	02/28/08				
C. Tank & all piping removed from ground	☒	☐	☐	☐	☐
D. Tank cleaned & closed in ground	☐	☐	☐	☐	☐
E. In-place closure pre-approved	☐	☐	☐	☐	☐
F. Tank filled with inert material	☐	☐	☐	☐	☐
Describe type of material used					
G. Change in service	☐	☐	☐	☐	☐
2. Date Site Assessment Completed	2/28/08				
Evidence of a leak detected?	☐Yes ☒No	☒Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No

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UNDERGROUND STORAGE TANKS

III. CERTIFICATION OF COMPLIANCE

(Complete Installer information for any licensed activities including newly installed and or upgraded tanks at this location)

OATH:	I certify the information concerning installation that is provided in UST Section I is true to the best of my belief and knowledge.

Installer Name:		OCC License #:	
Position:		Company:	
Signature:		Install date:	

Cathodic Protection Installer Signature:	
NACE Certification #:	NACE Certification Title:

Tank Identification Number	Tank No.		Tank No.		Tank No.		Tank No.		Tank No.	
1. Release Detection-mark all that apply	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	☐		☐		☐		☐		☐	
B. Tightness testing	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Monthly inventory reconciliation	☐		☐		☐		☐		☐	
D. Statistical inventory reconciliation	☐		☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐		☐		☐		☐		☐	
G. Automatic tank gauging (specify tanks and/or lines)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Mechanical LLDs		☐		☐		☐		☐		☐
J. Electronic LLDs-no ATG		☐		☐		☐		☐		☐
2. Spill Containment and Overfill Device installed in accordance with OCC rules	☐		☐		☐		☐		☐	

IV. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission)

Buel Avery	Title: Vice President
(Print) Name of owner or owner's legal representative	
Buel Avery	Date: 2/28/08
Signature	(Submit this form with original signature only.) UST Page 3

OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE MUST SIGN UST PAGE 3 OR AST PAGE 3

IMAGED 5/13/2008

UNDERGROUND STORAGE TANK CLOSURE REPORT

FACILITY # 72-14107

Green Metal Fabricators
906 W. Skelly Drive
Tulsa, Ok 74107

INTRODUCTION

Enviro-Tec America was contracted by Admire Construction to document removal and closure of one registered underground storage tank (UST), at the Green Metal Fabricator facility located at 906 W. Skelly Drive, (south side of I-44) Tulsa, Oklahoma. On February 28, 2008, one (1) 2,000-gallon gasoline UST was removed from the above referenced facility. Enviro-Tec America notified Ms. Susan Adlamini of the Oklahoma Corporation Commission (OCC) of the planned tank removal. Confirmation number for the removal is #04232. A copy of the scheduling is included as Appendix A included with this reporting. Soil backfill, down gradient wall (S) and 5' below the fill end of the 2,000-gallon UST samples were collected as required for the UST closure.

DESCRIPTION OF THE UST SYSTEM

The UST system at the Green Metal Fabricators facility consisted of one 2,000-gallon gasoline, one dispenser that was located directly over the tank. No/limited piping was run from the UST to the dispenser. The dispenser/piping was removed. The location of the tank pit is shown on figure 1 included. Figure 1 is a site map of the Green Metal Fabricators facility showing the location of the 2,000-gallon UST removed from the location. Currently, no other tanks are known to be located or are registered onsite other than the 2,000-gallon UST removed.

NATIVE SOIL SAMPLING

One (1) 2,000-gallon UST last contained gasoline. Enviro-Tec America conducted the soil sampling for the closure of the UST. Enviro-Tec America collected a native soil sample from the down-gradient wall (south) and from 5' below the fill end of the tank. The sample locations are labeled and shown on Figure 1 included. The backfill was sampled and the sample results are included with this report. The backfill sample was non-detect for all hydrocarbon concentrations analyzed. Additionally, the native down gradient wall sample (south) and a sample from 5' below the 2,000-gallon UST were non-detect for all parameters tested. Enviro-Tec spoke with Mr. Phillip Hudnall OCC hydrologist for Tulsa County and it is was determined to place the back-fill back in the tank pit. All native samples were below OAC 165:25-3-65 action levels.

The OCC Fuel Inspector for this area of the state was not present for the UST removal and/or native soil sampling. The native and backfill samples retrieved from the tank pit were sent to Green

IMAGED 5/13/2008

Country Testing of Tulsa for analyses. All backfill/native soil hydrocarbon concentrations retrieved and analyzed were below OAC 165:25-3-65 action levels for native soil at the site.

The laboratory analytical results for the native and backfill soil samples are included in Appendix B. The chain of custody forms for the native soil samples is included in Appendix C.

UST CLOSURE

On February 28, 2008, (1) 2,000-gallon gasoline UST and associated limited piping and dispenser were removed by Admire Construction from the Green Metal Fabricators facility. Enviro-Tec America conducted the backfill/native soil sampling (2/28/08) and reporting for the tank removal. The certificate of destruction is included as Appendix D for the removed tank.

SUMMARY

February 28, 2008 one (1) 2,000-gallon gasoline UST was removed from the facility. Backfill and native soil samples were collected by Enviro-Tec America on 2/28/08and the results of that sampling are included. All backfill and native soil hydrocarbon concentrations collected and analyzed from the Green Metal Fabricators facility were below the OAC 165:25-3-65 action levels for soil. All product piping was removed along with the dispenser.

The OCC Site Assessment Summary for Tank System Closure form, summarizing the information about the soil sampling and closure of the UST's at the facility, is included at the beginning of the report. The Notification for Underground Storage Tanks - Form 7530-1 documenting the change in Status of the UST's at the facility is included in Appendix E. Photos taken during the removal are included as Appendix F.

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WARRANTY

The field observations and analytical results reported herein are considered sufficient in detail and scope to form a reasonable basis for a general tank closure at this site. The environmental methods have been developed to provide the client with information regarding apparent existing environmental conditions relating to the subject property and are necessarily limited to the conditions observed at the time of the project. The report is also limited to the information available at the time that it was prepared. In the event additional information is provided to Enviro-Tec America following issuance of the report, it will be forwarded to the client in the form received for evaluation by the client. There is a possibility that conditions may exist which were not apparent during this project. Enviro-Tec America believes that the information provided during this project is reliable. However, Enviro-Tec America cannot warrant or guarantee that the information provided by others is complete or accurate.

3/7/08
DATE:

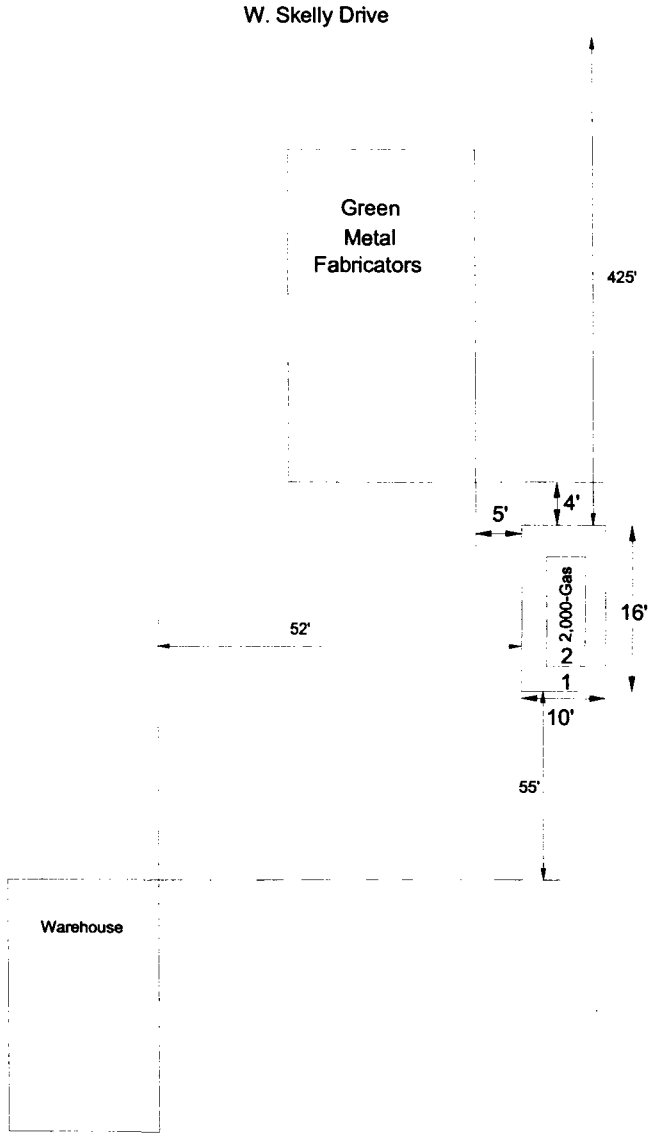
SCOTT DIXON
OKLAHOMA UST Remediation Consultant #0183

I-44

Site Map
Green Metal Fabricators
906 W. Skelly Drive
Tulsa, OK

N

3/07/08 Scale = None



Sampling Locations

1 = Native Dowgradient Wall (South)
2 = 5' Below 2,000-gas fill end

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Excavation of Steel 2,000-gallon lined gas UST
Note: minimal pitting/corrosion

Steel 2,000-gallon lined gas UST
Note: minimal corrosion/pitting

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Steel 2,000-gallon lined gas UST
Note: minimal pitting/corrosion

Steel 2,000-gallon lined gas UST
Note: minimal corrosion/pitting

IMAGED 5/13/2008

Chain of Custody Record

Green Country TESTING

Laboratory Number: T08020355

	Client Information:	Billing Information:
Company Name:	Enviro tex	
Contact Name:		
Address:		
City, State, Zip:		
Phone Number:	Ext:	Ext:
Fax Number:		
Email Address:		

PO Number:

Quote Number:

Required QC Level

Project Name/Number: Green metal FABRICATORS

Sampler's Signature

Bill Monthly: ☐ Yes ☒ No

Shipping Method: UPS / FedEx / Airborne / DHL / GCT / Hand / Mail

Page 1 of 1

Turn Time
- ☒ Standard
- ☐ 1 Day
- ☐ 2 Day
- ☐ Other

(Rush turn times will incur a surcharge and must be pre-approved by lab.)

Which Regulations Apply:
☐ RCRA ☐ Drinking Water
☐ POTW ☐ Distribution
☐ NPDES ☐ Special
☐ USDA/FDA ☐ State
☐ RECAP/RISC ☐ Other

Matrix Code:
AQ = Aqueous, DW = Drinking, WW = Waste, MW = Monit. Well, LQ = Liquid, SO = Soil, O = Oil, SL = Sludge, F = Food, SW = Swab, SOL = Solid

Sample ID/Description	Date	Time	Grab / Composite	Matrix	Container: Quantity	Container: Type (P=Plastic, G=Glass, V=Vial)	Pres.: HCl, HNO3, H2SO4, NaOH, Na2S2O3	Requested Tests: BTEX	Requested Tests: GRO	Comments
BF #1	2/28/08	1:41	Comp	SO	1	4oz G	None	X	X	
DG Wall South	"	2:15	Grab	"	1	1		1	1	
5' Below Fill	"	2:10	Grab	"	1	1		1	1	

	Relinquished by	Date/Time	Received by	Date/Time
1		2/28/08 3:00		2/28/08 1500
2				
3				
4				

Field Notes:

Received on ice? ☒ Yes ☐ No

Temp: 4°C

All samples submitted to Green Country Testing for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Green Country Testing reserves the right to return unused sample protions.

Green Country Testing
6825 East 38th Street • Tulsa, OK 74145
918-828-9977 • Fax (918) 828-7756

Part 1 - Laboratory Copy Part 2 - Report Copy Part 3 - Client's Temporary Copy

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6825 t 38th Street
Tulsa, lahoma 74145-1105
www. encountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

Scott Dixon
ENVIRO-TEC AMERICA INC.
4528 SOUTH SHERIDAN STE 211A
TULSA, OK 74145
TEL: (918) 664-2382
FAX (918) 664-8177

February 29, 2008
Order No.: T08020355

RE: Green Metal Fabricaters

Dear Scott Dixon:

Green Country Testing, Inc. received 3 samples on 2/28/2008 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analysis was conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604
AR - ADEQ
KS - E-10232
LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Approved By: _____
Brian Duzan, Director
Environmental Services

IMAGED 5/13/2008

6825 I 38th Street
Tulsa, lahoma 74145-1105
www.t ncountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

CLIENT: ENVIRO-TEC AMERICA INC.
Lab Order: T08020355 **Date Received:** 2/28/2008
Project: Green Metal Fabricaters **Date Reported:** *29-Feb-08*

Lab ID: T08020355-01 Collection Date: 2/28/2008 1:41:00 PM Sample ID: BF #1

Matrix: SOIL

Analyses	Result	Detection Limit	Units	Date Analyzed	Analyst
BTEX IN SOIL BY GC		**SW8021B**			**SW**
Benzene	ND	0.200	mg/Kg	2/28/2008	
Ethylbenzene	ND	0.500	mg/Kg	2/28/2008	
Naphthalene	ND	0.500	mg/Kg	2/28/2008	
Toluene	ND	0.500	mg/Kg	2/28/2008	
Xylenes, Total	ND	1.50	mg/Kg	2/28/2008	
Surr: 4-Bromofluorobenzene	85.0	16.1-169	%REC	2/28/2008	
Surr: Trifluorotoluene	72.0	27.8-140	%REC	2/28/2008	
TPH (GASOLINE)		**SW8015M/ODEQ**			**SW**
TPH (Gasoline)	ND	5.00	mg/Kg	2/28/2008	
Surr: Bromofluorobenzene	138	36.3-152	%REC	2/28/2008	
Surr: Trifluorobenzene	122	29-139	%REC	2/28/2008	

Lab ID: T08020355-02 Collection Date: 2/28/2008 2:15:00 PM Sample ID: DG Wall South

Matrix: SOIL

Analyses	Result	Detection Limit	Units	Date Analyzed	Analyst
BTEX IN SOIL BY GC		**SW8021B**			**SW**
Benzene	ND	0.200	mg/Kg	2/28/2008	
Ethylbenzene	ND	0.500	mg/Kg	2/28/2008	
Naphthalene	ND	0.500	mg/Kg	2/28/2008	
Toluene	ND	0.500	mg/Kg	2/28/2008	
Xylenes, Total	ND	1.50	mg/Kg	2/28/2008	
Surr: 4-Bromofluorobenzene	83.0	16.1-169	%REC	2/28/2008	
Surr: Trifluorotoluene	67.0	27.8-140	%REC	2/28/2008	
TPH (GASOLINE)		**SW8015M/ODEQ**			**SW**
TPH (Gasoline)	ND	5.00	mg/Kg	2/28/2008	
Surr: Bromofluorobenzene	137	36.3-152	%REC	2/28/2008	
Surr: Trifluorobenzene	111	29-139	%REC	2/28/2008	

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6825 t 38th Street
Tulsa, lahoma 74145-1105
www. ncountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

CLIENT: ENVIRO-TEC AMERICA INC.
Lab Order: T08020355 **Date Received:** 2/28/2008
Project: Green Metal Fabricaters **Date Reported:** *29-Feb-08*

Lab ID: T08020355-03 Collection Date: 2/28/2008 2:10:00 PM Sample ID: 5' Below Fill

Matrix: SOIL

Analyses	Result	Detection Limit	Units	Date Analyzed	Analyst
BTEX IN SOIL BY GC		**SW8021B**			**SW**
Benzene	ND	0.200	mg/Kg	2/28/2008	
Ethylbenzene	ND	0.500	mg/Kg	2/28/2008	
Naphthalene	ND	0.500	mg/Kg	2/28/2008	
Toluene	ND	0.500	mg/Kg	2/28/2008	
Xylenes, Total	ND	1.50	mg/Kg	2/28/2008	
Surr: 4-Bromofluorobenzene	85.0	16.1-169	%REC	2/28/2008	
Surr: Trifluorotoluene	72.0	27.8-140	%REC	2/28/2008	
TPH (GASOLINE)		**SW8015M/ODEQ**			**SW**
TPH (Gasoline)	ND	5.00	mg/Kg	2/28/2008	
Surr: Bromofluorobenzene	128	36.3-152	%REC	2/28/2008	
Surr: Trifluorobenzene	106	29-139	%REC	2/28/2008	

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6825 t 38th Street
Tulsa, lahoma 74145-1105
www. ncountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

CLIENT: Enviro-Tec America, Inc.
Work Order: T08020355
Project: Green Metal Fabricaters

QC SUMMARY REPORT

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
BTEX_S	Benzene	R34626	MBLK	ND	0.2	mg/Kg		
	Ethylbenzene	R34626	MBLK	ND	0.5	mg/Kg		
	Naphthalene	R34626	MBLK	ND	1	mg/Kg		
	Toluene	R34626	MBLK	ND	0.5	mg/Kg		
	Xylenes, Total	R34626	MBLK	ND	1.5	mg/Kg		
	Surr: 4-Bromofluorobenzene	R34626	MBLK	82	0.5	mg/Kg	82	
	Surr: Trifluorotoluene	R34626	MBLK	64	0.5	mg/Kg	64	
	Benzene	R34626	LCS	84.5	0.2	mg/Kg	84.5	
	Ethylbenzene	R34626	LCS	94.1	0.5	mg/Kg	94.1	
	Naphthalene	R34626	LCS	ND	1	mg/Kg	0	
	Toluene	R34626	LCS	89.3	0.5	mg/Kg	89.3	
	Xylenes, Total	R34626	LCS	280	1.5	mg/Kg	93.3	
	Surr: 4-Bromofluorobenzene	R34626	LCS	89.5	0.5	mg/Kg	89.5	
	Surr: Trifluorotoluene	R34626	LCS	74.3	0.5	mg/Kg	74.3	
	Benzene	R34626	MS	88.2	0.2	mg/Kg	88.2	
	Ethylbenzene	R34626	MS	97.6	0.5	mg/Kg	97.6	
	Naphthalene	R34626	MS	ND	1	mg/Kg	-1.67	
	Toluene	R34626	MS	92.7	0.5	mg/Kg	92.7	
	Xylenes, Total	R34626	MS	290	1.5	mg/Kg	96.7	
	Surr: 4-Bromofluorobenzene	R34626	MS	93.7	0.5	mg/Kg	93.7	
	Surr: Trifluorotoluene	R34626	MS	76.7	0.5	mg/Kg	76.7	
	Benzene	R34626	MSD	85.7	0.2	mg/Kg	85.7	2.88
	Ethylbenzene	R34626	MSD	96.2	0.5	mg/Kg	96.2	1.44
	Naphthalene	R34626	MSD	ND	1	mg/Kg	-1.67	0
	Toluene	R34626	MSD	91.1	0.5	mg/Kg	91.1	1.74
	Xylenes, Total	R34626	MSD	286	1.5	mg/Kg	95.3	1.39
	Surr: 4-Bromofluorobenzene	R34626	MSD	91.9	0.5	mg/Kg	91.9	1.94
	Surr: Trifluorotoluene	R34626	MSD	75.1	0.5	mg/Kg	75.1	2.11
TPHGRO_S	TPH (Gasoline)	R34629	MBLK	ND	5	mg/Kg		
	Surr: Bromofluorobenzene	R34629	MBLK	101	5	mg/Kg	101	
	Surr: Trifluorobenzene	R34629	MBLK	78.3	5	mg/Kg	78.3	
	TPH (Gasoline)	R34629	LCS	106	5	mg/Kg	106	
	Surr: Bromofluorobenzene	R34629	LCS	97.7	5	mg/Kg	97.7	
	Surr: Trifluorobenzene	R34629	LCS	94.6	5	mg/Kg	94.6	
	TPH (Gasoline)	R34629	MS	98.2	5	mg/Kg	98.2	
	Surr: Bromofluorobenzene	R34629	MS	94.8	5	mg/Kg	94.8	
	Surr: Trifluorobenzene	R34629	MS	83.8	5	mg/Kg	83.8	
	TPH (Gasoline)	R34629	MSD	99.7	5	mg/Kg	99.7	1.52
	Surr: Bromofluorobenzene	R34629	MSD	94.1	5	mg/Kg	94.1	0.741
	Surr: Trifluorobenzene	R34629	MSD	83.2	5	mg/Kg	83.2	0.719

IMAGED 5/13/2008

Subj: **RE: (no subject)**
Date: 3/5/2008 7:34:50 A.M. Central Standard Time
From: P.Hudnall@occemail.com
To: SDIXON456@aol.com

Scott,
Go ahead and return the backfill to the tank pit.
Thanks,

Phillip Hudnall
Oklahoma Corporation Commission
Petroleum Storage Tank Division
Project Environmental Analyst/Hydrologist
P.O. Box 52000
Jim Thorpe Building
Room 483
Oklahoma City, OK 73152-2000
405-522-6173
405-521-4945 (fax)

From: SDIXON456@aol.com [mailto:SDIXON456@aol.com]
Sent: Tuesday, March 04, 2008 4:43 PM
To: Phillip Hudnall
Subject: (no subject)

Backfill sample Green Metal Fabricators Tulsa tank removal 72-14107

It's Tax Time! Get tips, forms and advice on AOL Money & Finance.

IMAGED 5/13/2008

Backfill Worksheet

DATE:				Done by	SLD
Case #			Conf # 04232		
Facility File #			72-14107		
Site Name			Green Metal Fabricators		
Street Address			906 W. Skelly Drive		
City			Tulsa		
PIT	Length	Width	Depth		Volume of Pit
Tank Pit #1	16	10	7		41
	Tank #1	Tank #2	Tank #3	Tank #4	Total Volume of Tanks
Volume of Tanks	2000				10
In Gallons			**Volume of soil = Pit volume less tank volume**		32
PIT	Length	Width	Depth		Volume of Pit
Tank Pit #2					0
	Tank #1	Tank #2	Tank #3	Tank #4	Total Volume of Tanks
Volume of Tanks					0
In Gallons			**Volume of soil = Pit volume less tank volume**		0

Repeat as necessary for the number of pits and tanks

Total amount of soil to be removed from tank pits #1,#2,#3, etc				32
	Total length of Trenches	Width	Depth	Volume of Trenches
Product Lines				0
Total amount of soil to be removed from Pits and Trenches				32

Volume of soil to be returned: If different from amount hauled off attach explanation.

Costs per yard/ton to dispose of soil including loading, mileage and landfill charges. Set out details on an attached sheet.

Costs per yard/ton to return soil including loading, mileage and any other charges. Set out details on an attached sheet.

Total sampling costs: Number of samples X costs per sample	
Costs for professional time: See NOTE #1	
Total costs for above activities	0

NOTE 1: Only a minimal amount of time will be allowed for professional time. The consultant is already at the site for the tank pull. Attach break down of hours.

NOTE 2: Soil returned should equal soil removed. Volume of tanks will not be returned. If new tanks are being returned to a pit, the volume of soil removed from that pit will not be reimbursed as that is a regular business expense.

NOTE #3: For any exceptions attach a written explanation. If any local, state, or federal agency or a landfill has special requirements, furnish the name, phone number, and contact person in that agency.

IMAGED 5/13/2008

ADMIRE CONSTRUCTION, INC.
PO Box 27
Skiatook OK 74040
Phone (918) 724-3920 Fax (918) 396-7653

CERTIFICATE OF DESTRUCTION

STATE OF OKLAHOMA)
COUNTY OSAGE)

Rick Seitsinger of lawful age, being first duly sworn on oath says that he is the agent of the contractor.

Affiance certifies that 1 fuel storage tank(s) was/were removed from 906 W Skelly Dr. Tulsa OKLA. and delivered to Admire Construction tank disposal yard at 14321 N Cincinnati, Skiatook OK.

That this/these same 1 fuel storage tank(s) was/were rendered unsuitable for future use as fuel storage tank(s) by puncturing, cutting, or drilling numerous holes in all sections of each and every tank in accordance with the recommendations of the American Petroleum Institute recommended practice 1604, second edition.

That this/these same 1 tank(s) was/were so rendered unsuitable for future use as fuel storage tank(s) on or about Feb 27 08.

Signature

Subscribed and sworn to before me this 2nd day of March, 2008.

March 4, 2011
My commissions expires

Notary Public #03003719

Facility Summary for 7214107

Owner Name and Address: GREEN METAL FABRICATORS 906 W SKELLY DRIVE Tulsa OK 74107 Owner Phone: (918) 446-1571

Facility ID	Location Name	Location Street Address	Location City	Zip	Facility Phone
7214107	GREEN METAL FABRICATORS	906 W SKELLY DRIVE	Tulsa	74157	

Tank ID / AST Status	Installed Age	Product Capacity	Tank Mat'l of Construction Secondary Option	Piping Material Secondary Option	Piping Type Exempt	Tank Release Detection Piping Release Detection	FR Met Over/Spill/CP
1 No Currently In Use		Gasoline 2,000	Asphalt Coated or Bare Steel Lined Interior	No Piping None	Safe Suction No	A B C D ■ F G H I J K L ■ B D E F G H I J K L	Yes Yes Yes Yes

Tank/Piping Release Detection Codes

A Manual Tank Gauging	C Inventory Control	E Vapor Monitoring	G Interstit. Dbl-Wall Monitor	I SIR	K Deferred
B Tank/Line Tightness Testing	D ATG/Auto Line LD	F GW Monitoring	H Interstit. Sec. Con. Monitor	J Other Methods	L Not Listed

Report Generation Date: 2/12/2008 9:49:35 AM

IMAGED 5/13/2008 ummary Report

IMAGED 5/13/2008

B ANTHONY
C nissioner

JEFF CLOUD
Commissioner

JIM ROTH
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 521-4683 FAX: (405) 521-4945

JIM THORPE BUILDING, RM 238 • PO BOX 52000 • OKLAHOMA CITY, OK 73152-2000

February 13, 2008

Mr. Scott Dixon
Enviro-tec America, Inc.
4528 S. Sheridan, Suitc 211A
Tulsa, OK 74145

Re: Facility # 7214107
Confirmation #04232

Dear Scott:

Thank you for your recent call to schedule the closure of underground storage tank(s) beginning 2/28/08 at the following location:

Green Metal Fabricators
906 W. Skelly Drive
Tulsa, OK

Please follow this list of procedures for tank closures:

1. Schedule tank system removal and closure and soil sampling with the Commission's Pctroleum Storage Tank Division 14 days in advance.

2. Ensure a safe work area according to federal, state, and local regulations.

    a. Clean, make inert and purge tanks properly in accordance with accepted industry standards, such as the American Petroleum Institute (API) Recommended Practice 1604, Closure of Underground Petroleum Storage Tanks.

    b. Observe proper venting of tanks during excavation and removal.

    c. Test tanks for an acceptable Lower Explosive Limit (LEL) of 10 percent prior to removal, and properly cap and vent them for transport.

    d. An OCC-licensed UST Remover must be onsite during all removal activities, beginning with break-out of concrete.

IMAGED 5/13/2008

3. Perform sampling protocol for tanks and piping.

    a. A Commission-licensed Remediation Consultant must supervise the sampling.

    b. Soil and groundwater samples must be sent for testing to a DEQ-certified laboratory.

    c. Collect soil samples in native soil 1 to 3 feet below tanks (fill-end), the down-gradient wall, beneath dispensers, and every 20 feet of metal or fiberglass product line.

4. Properly dispose of tanks, excavated soil and water.

5. Submit a written report including a summary of all site activities, table of sample depths and results, lab report and chain of custody, site sketch with all sample locations, waste (disposal, treatment or reuse) documentation, certificate of destruction for tanks, photographic evidence, and a copy of this letter to the OCC within 45 days.

6. Sample excavated backfill from tanks and lines to determine if it can or cannot be returned to the pits and/or trenches.

    a. Sample backfill as follows: take 1 composite sample (made up 10 grab samples) every 50 yd^3. Samples must be analyzed at a certified lab. After reviewing the sampling results, the Technical Department will determine if the backfill can be returned to the pits and/or trenches.

Substantial penalties for failure to provide 48 hours' notice of schedule changes or failure to submit the tank removal report within 45 days may be assessed. If you need to reschedule, please contact me at (405) 522-1433.

Sincerely,

Susan Adlamini
Project Records Analyst

:sa

cc: Tom Duvall, OCC Fuel Specialist

Enclosure

IMAGED 5/13/2008

CLOSURE REPORT

FACILITY # 72-14107

GREEN METAL FABRICATORS
906 W. SKELLLY DRIVE
TULSA, OKLAHOMA 74107

ENVIRO-TEC AMERICA
4528 S. Sheridan Suite 211A
Tulsa, OKLAHOMA 74145

March 11, 2008

BOB ANTHONY
Commissioner

ED APPLE
Commissioner

DENISE A. BODE
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 521-4683 FAX: (405) 521-4945

JIM THORPE BLDG, ROOM 238 • P.O. BOX 52000-2000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

May 4, 1999

Mr. Clifford Kirkpatrick
22651 East 78th Street
Broken Arrow, Oklahoma 74041

Reference: Petroleum Storage Tank Amended Notification Form for Permanent Tank Closure of three underground storage tanks (USTs) [one 500- and two 8,000-gallon] located at Kirkpatrick Texaco, 2940 West Skelly Drive, Tulsa, Oklahoma.
Facility Number: **7212470**

Dear Mr. Kirkpatrick:

Thank you for providing your amended UST notification form (Form 7530-1) and supporting information documenting the permanent closure of your USTs at the above-referenced facility to the Oklahoma Corporation Commission (OCC).

Based on the information you have provided regarding site conditions, the OCC believes that there is no contamination of concern at this site at this time. The subject tanks are hereby considered permanently closed in accordance with OCC UST regulations. Should future environmental problems occur, which the OCC determines are related to this site, additional investigation and corrective action may be required in accordance with State Law.

If you have any questions regarding this matter, please contact me at (405) 522-1424.

Sincerely yours,

Jean Heinecke

Jean T. Heinecke
Environmental Compliance Analyst

cc: Bennie Whisler (Whisler Construction)
Facility File 7212470

1116

TANK CLOSURE SUMMARY SHEET

FACILITY ID NUMBER: 7212470
CASE NUMBER (if applicable): _____

Comments: _____

Number of USTs at facility (reported): 3
Number of USTs at facility (actual): 3
Number of USTs being closed: 3

OWNER/OPERATOR:

NAME | JOB TITLE | ADDRESS | PHONE #

TANK ID #:	TANK NO. 1	TANK NO. 2	TANK NO. 3	TANK NO.
EST DATE LAST USED:	12/22/98	same →	→	
EST TANK CAPACITY (gal):				
FAC DATABASE	500	8K	8K	
AFTER CLSR REVIEW	500	8K	8K	
TANK REMOVED (Date):	03/25/99	same →	→	
TANK CLSD IN GRD(Date):	—	—	—	
TANK FILLED WITH:	—	—	—	

SCHEDULED CLOSURE: Yes ✓; No _____ #01916

SITE ASSESSMENT COMPLETED: Yes ✓; No _____

•TESTING (SOIL) OR GW;

•USING EXTERNAL and LEAK DETECTION:
VAPOR MW _____; GROUNDWATER MW _____.

EVIDENCE OF LEAK DETECTED: Yes _____; No ✓.

NUMBER OF NEW TANKS INSTALLED (see attached 7530 for details): _____

Jean Heinecke
Technical Staff Reviewer

05/04/99
Date

OKLAHOMA CORPORATION COMMISSION
Fuel Division, UST/AST Program
P.O. Box 52000-2000
Oklahoma City, OK 73152-2000
(405) 522-4640

RECEIVED
UST/AST Dept.
APR 14 1999
Oklahoma Corporation Commission

CLOSURE REPORT
FOR

PERMANENTLY CLOSED UNDERGROUND - ABOVEGROUND STORAGE TANKS

PLEASE SUBMIT THIS COMPLETED FORM ALONG WITH ATTACHMENTS WITHIN 45 DAYS OF THE SCHEDULED CLOSURE.

1. Facility Identification Number. 7212470

2. Facility Location Name and Address.
KIRKPATRICK TEXACO
2940 W. SKELLY DR.
TULSA, OK

3. Owner's Name and Address.
CLIFFORD KIRKPATRICK
22651 E. 78 St.
BROKEN ARROW, OK 74041

4. Date Work Accomplished. 3-25-99

5. Number and size of tanks remaining at this facility. NONE

6. Number and size of tanks removed. 2-8000 & 1-500

(a) Condition of removed tanks. Are there any holes present?
Good No Holes

(b) Describe the disposal and/or disposition of the tank(s).
OWNER DISPOSED OF TANKS

(c) If tank system consisted of pressure piping, were samples taken at least every 40 feet? SAMPLED TANK PIT ONLY

(d) Was excavated soil removed from the site? NO

(e) If so, was a permit obtained for its removal? _____

7. Number and size of tanks filled with inert material. NONE

8. Estimated date tanks were last used. Dec. 22, 1998

9. Assess the site for potential contamination by:
   (a) testing the soil or groundwater; or
   (b) using an external leak detection method such as monitoring wells.
   (c) Were field screening instruments used? Yes
   (d) If so, what was the type and model number? GAS Tech

NOTE: If soil or ground water samples are used for a site assessment, the person taking the samples must be under the supervision of or be a certified UST Consultant.

10. Certified UST Consultant responsible for the sampling.
    I certify the samples were taken at locations where contamination had most likely occurred.

Name_____
Address_____
_____
Phone Number_____
Certification Number_____

Signature of Oklahoma Certified UST Consultant:

_____ Date_____

11. A site sketch shall include:
    (a) North arrow
    (b) Tank pit location
    (c) Proximity of tank pit to roads, buildings, or other landmarks measured in feet
    (d) Piping layout and pump island location
    (e) Soil sample locations identifying the sample identification

12. Site Assessment prepared by:
Name Bennie Whisler
Address P.O. Box 158
CHECOTAH, OK 74426
Phone Number 918 473 2349

Signature of Preparer:
Bennie Whisler Date 4-5-99

Attachments:
(a) Lab reports or records of external leak detection
(b) Site sketch

Form 7530-1

Registration for Underground Storage Tanks

STATE USE ONLY

Oklahoma Corporation Commission
Underground Storage Tank Program
P.O. Box 52000-2000, Rm 250
Oklahoma City, OK 73152-2000

ID NUMBER: 7212470

DATE RECEIVED: APR 14 1999

A. Date entered into computer: _____
B. Data entry clerk initials: _____
C. Owner was contacted to clarify responses
Comments: _____

TYPE OF NOTIFICATION

☐ A. New Facility ☐ B. Amended
☒ C. Closure ☐ D. Owner Transfer

Date of Ownership Transfer: _____

Number of tanks at facility: 0

INSTRUCTIONS

Please type or print in ink. This form must be completed for each location containing underground storage Tanks. If more than four (4) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

GENERAL INFORMATION

Notification is required by Federal and State Law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1985, or that are brought into use after May 8, 1986.

PENALTIES

Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK (S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

CLIFFORD KIRKPATRICK

22651 E. 78 st
Street Address

BROKEN ARROW, OK 74041
City & State Zip Code

(Area Code) Phone Number

II. LOCATION OF TANK (S)

Facility Name or Company Site Identifier, as applicable

KIRKPATRICK TEXACO

2940 W. Skelly DR.
Street Address (P.O. Box not acceptable)

TULSA, OK
City & State Zip Code

If known, give the geographic location of tanks by degrees, minutes, and seconds. (Example: Lat. 42, 36, 12 N Long 85, 24, 17W)

Latitude: _____ Longitude: _____

III. TYPE OF OWNER

- ☐ Federal Government
- ☐ State Government
- ☐ Local Government
- ☒ Commercial
- ☐ Farm
- ☐ Other

IV. INDIAN LANDS

Tanks are located on land within an Indian Reservation or on other trust lands.
Tribe or Nation _____

V. CONTACT PERSON IN CHARGE OF TANKS

Name	Job Title	Address	Phone # (Include Area Code)
CLIFFORD KIRKPATRICK			928 446 7591

VI. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with CFR Subpart H. (Financial Responsibility must be met and acknowledged) ✓

VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS
(COMPLETE FOR EACH TANK AT THIS LOCATION)

Tank Identification Number	Tank No 1	Tank No. 2	Tank No 3	Tank No
1. Status of Tank (mark only one) Currently In Use				
Temporarily Out of Use (Remember to fill out section VIII)				
Permanently Out of Use (Remember to fill out section VIII)	X	X	X	
2. Date of Installation (mo./year)	1967	1967	1967	
3. Estimated Total Capacity (gallons)	8000	8000	500	
4. Material of Construction (Mark all that apply)				
Coated or Bare Steel	X	X	X	
Cathodically Protected Steel				
Composite (Steel with Fiberglass)				
Fiberglass Reinforced Plastic				
Lined Interior				
Double Walled				
Polyethylene Tank Jacket				
Concrete				
Excavation Liner				
Unknown				
Other, Please specify				

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No ____
5. Piping (Material) (Mark all that appy) Steel	X	X	X	
Fiberglass Reinforced Plastic				
Copper				
Cathodically Protected				
Double Walled				
Secondary Containment				
Unknown				
Other, Please specify				
6. Piping (Mark all that apply) Pressure	X	X		
Suction: no valve at tank				
Suction: valve at tank				
7. Substances Currently or Last Stored in Greatest Quantity. Gasoline	X	X		
Diesel				
Gasohol				
Kerosene				
Heating Oil				
Used Oil			X	
Other, Please specify				
Hazardous Substance CAS Number or CERCLA Name				
VIII. TANKS OUT OF USE, OR CHANGE IN SERVICE				
1. Closing of Tank A. Estimated date last used	12-22-98	12-22-98	12-22-98	
B. Estimate date tank closed or removed. (mo./date/year)	3-25-99	3-25-99	3-25-99	
C. Tank was removed from ground.	X	X	X	
D. Tank was closed in ground.				
E. Tank filled with inert material.				
Describe type of material used.				
F. Change in service.				
2. Site Assessment Completed	Yes	Yes	Yes	
Evidence of a leak detected	NO	NO	NO	

IX. CERTIFICATION OF COMPLIANCE
(COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

OATH: I certify the information concerning installation that is provided in Section IX is true to the best of my belief and knowledge.

Installer Name: _____ License #: _____

Position: _____ Company: _____

Signature of Installer & Date: _____

Tank Identification Number	Tank No.____		Tank No.____		Tank No.____		Tank No.____	
1. Release Detection (Mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	☐		☐		☐		☐	
B. Tightness testing	☐	☐	☐	☐	☐	☐	☐	☐
C. Inventory controls	☐		☐		☐		☐	
D. Automatic tank gauging	☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐
G. Interstitial monitoring double walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring or Secondary containment	☐	☐	☐	☐	☐	☐	☐	☐
I. Automatic line leak detectors		☐		☐		☐		☐
J. Other method allowed by Implementing Agency	☐	☐	☐	☐	☐	☐	☐	☐
2. Spill and Overfill Protection								
A. Overfill device installed.	☐		☐		☐		☐	
B. Spill device installed.	☐		☐		☐		☐	

X. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission.)

Cathodic Protection Installer Signature: _____ NACE # _____

Name of owner or owner's authorized representative:

Kirkpatricks Texaco
Clifford Kirkpatrick — Print

Owner — Title:

Clifford Kirkpatrick — Signature:

4-12-99 — Date:

MS

RECEIVED
UST/AST Dept.
APR 14 1999
Oklahoma Corporation
Commission

TANK REMOVAL AND CLOSURE

CLIFF KIRKPATRICK
2940 W. SKELLY DRIVE
TULSA, OKLAHOMA

FACILITY # 7212470

On March 25,1999 Whisler Construction Company assisted Mr. Kirpatrick and the All Steel Building Co. in the removal of two 8,000 gallon and one 500 gallon underground storage tanks. Whisler also assisted the Oklahoma Corporation Commission in the collecting of the soil samples for monitor well confirmation. The two 8,000 gallon tanks contained UL gasoline, the 500 gallon tank contained waste oil. All of these tanks were in good condition with no holes present.

Monitor well readings dating from January 12,1998 thru December 22,1998 were used along with soil sampling by the Oklahoma Corporation Commission.

Please send Mr. Kirpatrick a letter of closure.

BOB ANTHONY
Commissioner

ED APPLE
Commissioner

DENISE A. BODE
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 521-4683 FAX: (405) 521-4945

JIM THORPE BUILDING, RM 238 • PO BOX 52000-2000 • OKLAHOMA CITY, OK 73152-2000

March 23, 1999

RECEIVED
UST/AST Dept.
APR 14 1999
Oklanoma Corporauon
Commission

Bennie Whisler
PO Box 158
Checotah, OK 74426

RE: Facility #7212470
CONFIRMATION # 01916

Dear Sir:

Thank you for your recent call to schedule closure of underground storage tank (s) 3-25-99 am located at:

Cliff Kirkpatrick
2940 W Skelly Dr
Tulsa, OK

Following is a summary of procedures to follow for tank closures:

1. Schedule removal/closure/soil samples with the Oklahoma Corporation Commission, UST Program 48 hours in advance of removal or sampling.
2. Assure safe work area according to federal, state, and local regulations.
3. Perform sampling protocol for tank(s) and piping.
   A. Sampling must be supervised by an OCC Certified UST Consultant.
   B. Send soil sample for testing to a DEQ certified laboratory.
4. Properly dispose of tank(s), excavated soil and water.
5. **Submit written report, copy of this letter and site sketches to the OCC within 45 days of closure.**

NOTE: Complete and return attached documents, which includes 7530-1& closure report. Please retain a copy of all documents for your files.

Rule 165:25-3-65 allows for substantial fines for failure to provide 48 hours notice to schedule changes; so if you need to reschedule please contact this office at 405-521-6720. If you have questions or need further assistance please feel free to call me.

Sincerely,

Mary Grimm
Petroleum Storage Tank Division

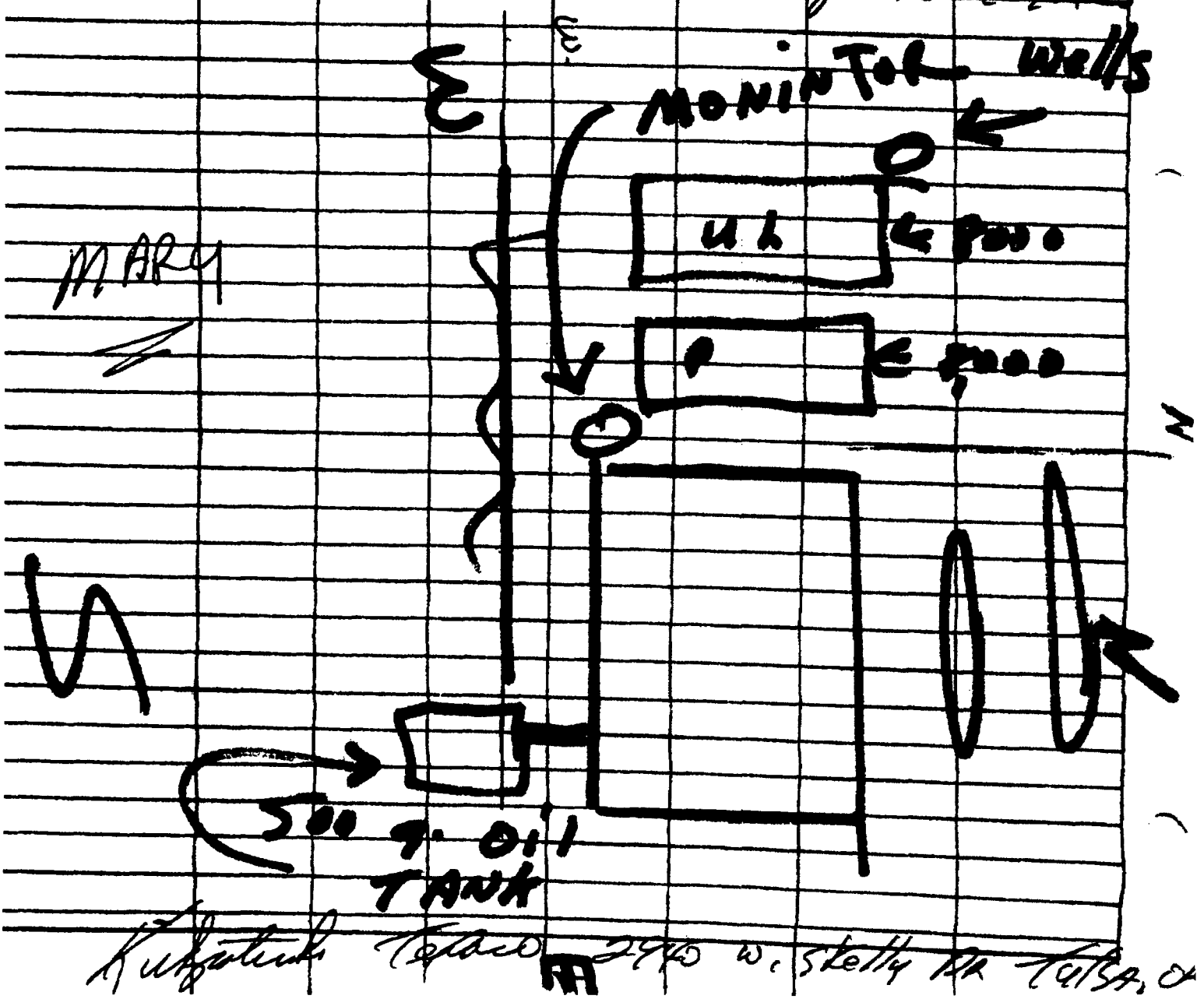
Enclosures

cc: Rick Heck
Fuel Inspection Department

DETAIL REPORTING SUPPLEMENT

PAGE: [redacted]

Date					
[redacted]		[redacted]	1998		[redacted]4
1-12-98	0	0	120	90	Kirkpatrick Texaco
2-9-98	0	0	115	80	Kirkpatrick Texaco
3-5-98	0	0	115	80	Kirkpatrick Texaco
4-18-98	0	0	120	85	Kirkpatrick Texaco
5-10-98	0	0	115	80	Kirkpatrick Texaco
6-2-98	0	0	120	75	Kirkpatrick Texaco
7-10-98	0	0	125	80	Kirkpatrick Texaco
8-15-98	0	0	115	70	Kirkpatrick Texaco
9-5-98	0	0	110	75	Kirkpatrick Texaco
10-28-98	0	0	60	30	Kirkpatrick Texaco
11-2-98	0	0	10	10	Kirkpatrick Texaco
12-2-98	0	0	60	15	Kirkpatrick Texaco



MARY

Kirkpatrick Texaco 2440 W. Skelly Dr Tulsa, OK

SAMPLE NUMBER: 267174
AGENCY NUMBER:
DATE COLLECTED: 03/25/99
TIME COLLECTED: 09:55
DATE RECEIVED: 03/25/99
DATE COMPLETED: / /
PWS ID:
STATION:
COLLECTED BY: SD
DATE REPORTED: 04/12/99

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GC LABORATORY

OCC/PSTD
ATTN: SALIM DOUGLAH
JIM THORPE BUILDING

CC: FILE COPY

CONCENTRATION IN SAMPLE **PAGE** 1

PARAMETER NAME	CODE	<	VALUE	UNITS	METHOD
GASOLINE RANGE ORGANICS, TOTAL (GRO-SED)	00560	<	200.000	UG/KG	8020/15
TOTAL BTEX	00569	<	200.000	UG/KG	8020/15
BENZENE	34237	<	20.000	UG/KG	8020/15
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TOLUENE	34483	<	20.000	UG/KG	8020/15
XYLENES	45510	<	20.000	UG/KG	8020/15
NAPHTHALENE, SEDIMENT(GRO)	78331	<	20.000	UG/KG	8020/15

SOURCE: TANK #2
PROGRAM: Contractual Services
COUNTY: UNKNOWN **CITY:**

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0013

ANALYST'S COMMENTS:

ANALYST

SAMPLE NUMBER: 267176
AGENCY NUMBER:
DATE COLLECTED: 03/25/99
TIME COLLECTED: 09:55
DATE RECEIVED: 03/25/99
DATE COMPLETED: / /
PWS ID:
STATION:
COLLECTED BY: SD
DATE REPORTED: 04/07/99

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GC LABORATORY

OCC/PSTD
ATTN: SALIM DOUGLAH
JIM THORPE BUILDING

CC: FILE COPY

CONCENTRATION IN SAMPLE PAGE 1

PARAMETER NAME	CODE	<	VALUE	UNITS	METHOD
DIESEL RANGE ORGANICS, TOTAL (DRO-SED)	00562	<	10.000	MG/KG	8000/100
NAPHTHALENE (DRO)	78298	<	5.000	MG/KG	8000/100

SOURCE: TANK #2
PROGRAM: Contractual Services
COUNTY: UNKNOWN CITY:

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0013

ANALYST'S COMMENTS:

ANALYST

SAMPLE NUMBER: 267175
AGENCY NUMBER:
DATE COLLECTED: 03/25/99
TIME COLLECTED: 10:15
DATE RECEIVED: 03/25/99
DATE COMPLETED: / /
PWS ID:
STATION:
COLLECTED BY: SD
DATE REPORTED: 04/12/99

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

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NAPHTHALENE, SEDIMENT(GRO)	78331	<	20.000	UG/KG	8020/15

SOURCE: TANK #1
PROGRAM: Contractual Services
COUNTY: UNKNOWN **CITY:**

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0014

ANALYST'S COMMENTS: MANY MISCELLANEOUS SMALL PEAKS IN THE C14+ WEIGHT RANGE.

ANALYST

SAMPLE NUMBER: 267177
AGENCY NUMBER:
DATE COLLECTED: 03/25/99
TIME COLLECTED: 10:15
DATE RECEIVED: 03/25/99
DATE COMPLETED: / /
PWS ID:
STATION:
COLLECTED BY: SD
DATE REPORTED: 04/07/99

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

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LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0014

ANALYST'S COMMENTS:

ANALYST

SAMPLE NUMBER: 267178
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COLLECTED BY: SD
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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

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SOURCE: TANK #3
PROGRAM: Contractual Services
COUNTY: UNKNOWN CITY:

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0015

ANALYST'S COMMENTS:

ANALYST

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

RECEIVED
PETROLEUM STORAGE
TANK DIVISION

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

'99 APR 23 AM 9:02

FAX TRANSMITTAL

DATE: 4-22-99

TO: Jean

Fax #: 521-4945

Agency/Company: OCC

Phone #

FROM: Andrea

Fax #: 405/702-~~6101~~ 9101

Service: Customer Services Division

Phone: 405/702-~~6100~~ 1000

6 # of Pages (including this sheet)

COMMENTS:

707 NORTH ROBINSON, P.O. BOX 1677, OKLAHOMA CITY, OKLAHOMA 73101-1677

printed on recycled paper with soy ink

SAMPLE NUMBER: 267174
AGENCY NUMBER:
DATE COLLECTED: 03/25/99
TIME COLLECTED: 09:55
DATE RECEIVED: 03/25/99
DATE COMPLETED: / /
PWS ID:
STATION:
COLLECTED BY: SO
DATE REPORTED: 04/12/99

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

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RECEIVED
PETROLEUM STORAGE
TANK DIVISION
1999 APR 23 AM 9:42

SOURCE: TANK #2
PROGRAM: Contractual Services
COUNTY: UNKNOWN **CITY:**

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0013

ANALYST'S COMMENTS:

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

REPORT OF ANALYSIS BY GC LABORATORY

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TANK DIVISION
1999 APR 23 AM 9:42

SOURCE: TANK #3
PROGRAM: Contractual Services
COUNTY: UNKNOWN CITY:

LEGAL DESCRIPTION
/4 /4 /4 SEC T R M

LAB REFERENCES:

SAMPLER'S COMMENTS: #99-0015

ANALYST'S COMMENTS:

ANALYST

SHERRY LABORATORIES

INDIANA LOUISIANA OKLAHOMA

Metlab Testing Services, Inc.

10835 E. Independence, Suite 102 • Tulsa, Oklahoma 74116-5673
918-234-7111 • 800-324-5757 • Fax 918-234-7152

Environmental Division

CLIFF KIRKPATRICK

ATTN: CLIFF KIRKPATRICK

COLLECTED BY: JEAN HEINECKE

MLTS# 99-3127 SAM# 99-04-293

DATE RECEIVED: 04/28/99 CONTACT CHARLENE

DATE COLLECTED: 04/28/99 0820 PO# NOT SPECIFIED

In accordance with your instructions, Sherry Laboratories, ODEQ certification #7604, conducted the analysis shown below on a sample submitted by your company. Unless otherwise noted, all analysis was conducted using EPA approved methodologies and all relevant sampling information is on the attached chain-of-custody form.

SAMPLE ID	PARAMETER	RESULTS	DET. LIMIT	UNITS	ANALYST	ANALYZED	TIME	METHOD
TANK 3 04/28/99 0820	PERCENT SOLIDS	84.3	0.1	%	KLR	04/29/99	1530	ASTM 2216-92
	DIESEL RANGE ORGANICS	<5.0	5	mg/kg	NM	04/30/99	1942	8015MOD

Should you have any questions, please feel free to call.

RECEIVED
PETROLEUM STORAGE
TANK DIVISION
1999 MAY -4 AM 8:12

Approved by: Kaila Alexander Dated: 05/03/99

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P. 3

MAY- 3-99 MON 3:44 PM

SHERRY LABORATORIES

☐ 629 Washington St., Suite 300
COLUMBUS IN 47201
812-375-0531
Fax 812-375-0731

☐ 5738 Industrial Rd.
FORT WAYNE IN 46825
219-471-7000
Fax 219-471-7777

☐ 2203 S. Madison St.
MUNCIE IN 47302
765-747-9000 / 800-874-3563
Fax 765-747-0228

☐ 2417 W. Pinhook Road
LAFAYETTE LA 70508
318-235-0483 / 800-737-2378
Fax 318-233-6540

☐ 10835 E. Independence, Suite 102
TULSA OK 74116
918-234-7111 / 800-324-5757
Fax 918-234-7152

Page 1 of 1

Chain of Custody Record

Laboratory Number

Client Name: CLIFF KIRKPATRICK
Project Name:
Contact Name:
Project #:
Phone/Fax: 446-3235 / 446-3293 FAX
Sampler's Signature:

Collection Date	Collection Time	Grab	Comp	Sample Identification / Description	Preservative	Number / Type of Container	Matrix Code	Tests Requested: TPH-DRO	Comments / Remarks
4/28/99	0827	✓		TANK 5		1 G	S	✓	JEAN HEINECKE JSC

UPS / FedEx
Airborne / Sherry
Hand / Mail

All samples submitted to Sherry Laboratories for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Sherry Laboratories reserves the right to return unused sample portions.

P.O. Number

Relinquished by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Jean Heinecke	Cindy Cisler	4/28/99	0900				
Relinquished by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Received by Laboratory: (Signature)	Date	Time

Matrix Codes
DW = Drinking Water; MW = Monitoring Well; WW = Waste Water; W = Water; SL = Sludge; SO = Soil; O = Oil; OT = Other

Container Types
G = Glass
P = Plastic

Shipping Conditions
☐ Iced
☐ Ambient

Which Regulations Apply
☐ RCRA ☐ Drinking Water ☐ NPDES
☐ POTW ☐ Other

Thank-you for using SHERRY LABORATORIES
The Source for Metallurgical, Materials, & Environmental Testing Services

SHERRY LABORATORIES

☐ 629 Washington St., Suite 300
COLUMBUS IN 47201
812-375-0531
Fax 812-375-0731

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Fax 219-471-7777

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Fax 765-747-0228

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LAFAYETTE LA 70508
318-235-0483 / 800-737-2378
Fax 318-233-6540

☐ 10835 E. Independence, Suite 102
TULSA OK 74116
918-234-7111 / 800-324-5757
Fax 918-234-7152

Page 1 of 1

Chain of Custody Record

Laboratory Number: 99-3127 99-04-293

Client Name: CLIFF KIRKPATRICK
Contact Name:
Phone/Fax: 446-3235 446-3293 FAX

Project Name:
Project #:
Sampler's Signature: JHA

Collection Date	Collection Time	Grab	Comp	Sample Identification / Description	Preservative	Number / Type of Container	Matrix Code	TPH-DRO (Tests Requested)	Comments / Remarks
04/28/99	0820	✓		TANK 3		2	G S	✓	fax results JEAN HEINECKE OCC 405-521-4945

RECEIVED PETROLEUM STORAGE TANK DIVISION 1999 MAY -4 AM 8:12

UPS / FedEx
Airborne / Sherry
Hand / Mail

All samples submitted to Sherry Laboratories for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Sherry Laboratories reserves the right to return unused sample portions.

P.O. Number

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Joan Heinecke	Cindy Cuby	4/28/99	0900
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by Laboratory: (Signature)	Date	Time

Matrix Codes: DW = Drinking Water; WW = Waste Water; SO = Soil; MW = Monitoring Well; W = Water; O = Oil; SL = Sludge; OT = Other

Container Types: G = Glass; P = Plastic

Shipping Conditions: ☐ Iced ☐ Ambient

Which Regulations Apply: ☐ RCRA ☐ Drinking Water ☐ NPDES ☐ PCTW ☐ Other

Thank-you for using SHERRY LABORATORIES
The Source for Metallurgical, Materials, & Environmental Testing Servic

PART 1

11/97

Part 1 - Laboratory Copy Part 2 - Report Copy Part 3 - Client's Temporary Copy

MAY- 3-99 MON 3:44 PM P. 4

SHERRY LABORATORIES

INDIANA LOUISIANA OKLAHOMA

Metlab Testing Services, Inc.

10835 E. Independence, Suite 102 • Tulsa, Oklahoma 74116-5673
918-234-7111 • 800-324-5757 • Fax 918-234-7152

Environmental Division

TEST REPORT

CLIFF KIRKPATRICK
2940 W. SKELLY DRIVE
TULSA, OK 74107
ATTN: CLIFF KIRKPATRICK

SAM# 99-04-293
DATE RECEIVED: 04/28/99
DATE REPORTED: 05/03/99
PO# _____

In accordance with your instructions, Sherry Laboratories/Oklahoma conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using EPA approved methodologies. All relevant sampling information is on the attached chain-of-custody form. Any testing sub-contracted by SLO is designated by the initials SUB as the analyst.

Certifications/Accreditations: OK #7604
AR
KS
A2LA #0174-06

A scope of Certified/Accredited parameters is available upon request.

RECEIVED
PETROLEUM STORAGE
TANK DIVISION
1999 MAY -4 AM 8:12

MAY- 3-99 MON 3:43 PM

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BOB ANTHONY
Commissioner

DENISE A. BODE
Commissioner

ED APPLE
Commissioner

OKLAHOMA
Corporation Commission

P.O. BOX 52000-2000
OKLAHOMA CITY OKLAHOMA 73152-2000

Jim Thorpe Building
Telephone: (405)521-3107
FAX: (405)521-6576

Petroleum Storage Tank Division

Tom Tucker, Director

July 9, 1998

Mr. Mark Hill
Hill Enterprises
4129 S.W. Boulevard
Tulsa, Oklahoma 74107

Reference: Facility #7204339, Removal and Closure Report for 1-8,000 gal, 1-6,000 gal and 1-500 gal underground storage tanks located at Hill's APCO, 4999 South Union, Tulsa, Oklahoma.

Dear Sir:

The Oklahoma Corporation Commission is in receipt of your report covering the removal and closure of 1-8,000 gallon, 1-6,000 gallon and 1-500 gallon UST's at the referenced site between June 3 and June 5, 1998. A review of the soil testing reports dated **June 15, 1998,** indicates the facility does not exceed the action levels established by the Oklahoma Corporation Commission. The subject tanks are hereby considered closed within the standards prescribed by the Oklahoma Corporation Commission. Please be advised, however, that any future contamination found may require remediation.

Thank you for your cooperation and assistance to protect the waters of Oklahoma for future generations. If you have any questions, please call (405) -521-3505.

Sincerely,

William F. Hansen

William F. Hansen P.E.
Sr. Environmental Engineer OCC

cc: Facility File #7204339
Rick Heck
William Redmond

ERI, A Division of WWR L.C.

PO BOX 1330
BROKEN ARROW, OK 74013-1330

918-251-8114
FAX 918-251-9193

June 15, 1998

RECEIVED
LUST TRUST FUND

JUN 1 6 1998

OKLAHOMA CORPORATION
COMMISSION

Bill Hanson
Oklahoma Corporation Commission
Fuels Division - USTs
PO Box 52000-2000
Oklahoma City, OK 75153-2000

Removal of USTs from 4993 S. Union

Dear Mr. Hanson:

We removed the tanks from this site on June 3, 1998. We sampled as shown on the enclosed map. I was concerned and resampled into the native soil on June 4, 1998. The results herein are the analysis of that sample.

I sent this by Federal Express to expedite the closure. Thanks for your help.

Respectfully yours,

William Redmond

William Redmond, PE
HILL-10

OKLAHOMA CORPORATION COMMISSION
Fuel Division, UST/AST Program
P.O. Box 52000-2000
Oklahoma City, OK 73152-2000
(405) 522-4640

CLOSURE REPORT
FOR
PERMANENTLY CLOSED UNDERGROUND STORAGE TANKS

PLEASE SUBMIT THIS COMPLETED FORM ALONG WITH ATTACHMENTS WITHIN 45 DAYS OF THE SCHEDULED CLOSURE.

1. Facility Identification Number. 7204339

2. Facility Location Name and Address.
Hill's APCO
4999 S. Union
Tulsa, OK 74107

3. Owner's Name and Address.
Mark & Diane Hill
4129 S.W. Boulevard
Tulsa, OK 74107

4. Date Work Accomplished. 6/3/98 - 6/5/98

5. Number and size of tanks remaining at this facility.
0

6. Number and size of tanks removed. 3

(a) Condition of removed tanks. Are there any holes present?
Good - No holes

(b) Describe the disposal and/or disposition of the tank(s).
Recycled for Scrap

(c) If tank system consisted of pressure piping, were samples taken at least every 40 feet? Yes

(d) Was excavated soil removed from the site? No

(e) If so, was a permit obtained for its removal? NA

7. Number and size of tanks filled with inert material. NA

8. Estimated date tanks were last used. 5/28/98

9. Assess the site for potential contamination by:
   (a) testing the soil or groundwater; or

   (b) using an external leak detection method such as monitoring wells.

   (c) Were field screening instruments used? Yes

   (d) If so, what was the type and model number? Flame Ionization Detector- Detecto PaK III

NOTE: If soil or ground water samples are used for a site assessment, the person taking the samples must be under the supervision of or be a certified UST Consultant.

10. Certified UST Consultant responsible for the sampling.
    I certify the samples were taken at locations where contamination had most likely occurred.

Name William Redmond
Address 2213 W. Oak Ridge or PO Box 1330
Broken Arrow, OK 74012 74013
Phone Number 918-251-8114
Certification Number 0103

Signature of Oklahoma Certified UST Consultant:

William Redmond Date 6/15/98

11. A site sketch shall include:
    (a) North arrow
    (b) Tank pit location
    (c) Proximity of tank pit to roads, buildings, or other landmarks measured in feet
    (d) Piping layout and pump island location
    (e) Soil sample locations identifying the sample identification

12. Site Assessment prepared by:
Name William Redmond
Address PO Box 1330
Broken Arrow, OK 74013
Phone Number 918-251-8114

Signature of Preparer:

William Redmond Date 6/15/98

Attachments:
   (a) Lab reports or records of external leak detection
   (b) Site sketch

Registration for Underground Storage Tanks

Oklahoma Corporation Commission
Underground Storage Tank Program
P.O. Box 52000-2000, Rm 250
Oklahoma City, OK 73152-2000

STATE USE ONLY

ID NUMBER 7204339

DATE RECEIVED

A. Date Entered Into Computer 7/14/98

B. Data Entry Clerk Initials

C. Owner was Contacted to Clarify Responses

Comments:

TYPE OF NOTIFICATION

☐ A. NEW FACILITY ☐ B. AMENDED

☒ C. CLOSURE

___ No. of tanks at facility ___ No. of continuation sheets attached.

INSTRUCTIONS

Please type or print in ink. This form must be completed for each location containing underground storage tanks. If more than four (4) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

General Information

Notification is required by Federal and State Law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1985, or that are brought into use after May 8, 1986.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Hill Enterprises

4129 S.W. Boulevard
Street Address

Tulsa, OK 74107
City & State Zip Code

918-446-5238
(Area Code) Phone Number

Date of Ownership Transfer ___

II. LOCATION OF TANK(S)

Facility Name or Company Site Identifier, as applicable
Hill's APCO

4999 S. Union
Street Address (P.O. Box not acceptable)

Tulsa, OK 74107
City & State Zip Code

If known, give the geographic location of tanks by degrees, minutes, and seconds. Example: Lat. 42, 36, 12 N Long 85, 24, 17W.

Latitude ___ Longitude ___

III. TYPE OF OWNER		IV. INDIAN LANDS
☐ Federal Government ☐ State Government ☐ Local Government	☒ Commercial ☐ Farm ☐ Other	Tanks are located on land within an Indian Reservation or on other trust lands. Tribe or Nation _____

V. CONTACT PERSON IN CHARGE OF TANKS

Name	Job Title	Address	Phone Number (Include Area Code)
Mark Hill or Diane Hill	Owner	4129 S.W. Blvd Tulsa, OK 74107	918- 446-5238

VI. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with 40 CFR Subpart H. (Financial Responsibility must be met and acknowledged.) ☐

VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS (COMPLETE FOR EACH TANK AT THIS LOCATION.

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No.
1. Status of Tank (mark only one)				
Currently In Use	☐	☐	☐	☐
Temporarily Out of Use (Remember to fill out section VIII)	☐	☐	☐	☐
Permanently Out of Use (Remember to fill out section VIII)	☒	☒	☒	☐
2. Date of Installation (mo./year)	2/77	2/77	2/77	
3. Estimated Total Capacity (gallons)	8,000	6,000	500	
4. Material of Construction (Mark all that apply)				
Coated or Bare Steel	☒	☒	☒	☐
Cathodically Protected Steel	☐	☐	☐	☐
Composite (Steel with Fiberglass)	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐
Lined Interior	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐
Polyethylene Tank Jacket	☐	☐	☐	☐
Concrete	☐	☐	☐	☐
Excavation Liner	☐	☐	☐	☐
Unknown	☐	☐	☐	☐
Other, Please specify	_____	_____	_____	_____
	_____	_____	_____	_____
	_____	_____	_____	_____

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No ____
5. Piping (Material) (Mark all that appy) Steel	X	X	X	
Fiberglass Reinforced Plastic				
Copper				
Cathodically Protected				
Double Walled				
Secondary Containment				
Unknown				
Other, Please specify				
6. Piping (Mark all that apply) Pressure	X	X		
Suction: no valve at tank			X	
Suction: valve at tank				
7. Substances Currently or Last Stored in Greatest Quantity. Gasoline	X	X		
Diesel				
Gasohol				
Kerosene				
Heating Oil				
Used Oil			X	
Other, Please specify				
Hazardous Substance CAS Number or CERCLA Name				
VIII. TANKS OUT OF USE, OR CHANGE IN SERVICE				
1. Closing of Tank A. Estimated date last used	5/28/98	5/28/98	5/28/98	
B. Estimate date tank closed or removed. (mo./date/year)	6/3/98	6/3/98	6/3/98	
C. Tank was removed from ground.	X	X	X	
D. Tank was closed in ground.				
E. Tank filled with inert material. Describe type of material used.				
F. Change in service.				
2. Site Assessment Completed	Yes	Yes	Yes	
Evidence of a leak detected	NO	NO	NO	

IX. CERTIFICATION OF COMPLIANCE
(COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)

OATH: I certify the information concerning installation that is provided in Section IX is true to the best of my belief and knowledge.

Installer Name: _____ License #: _____

Position: _____ Company: _____

Signature of Installer & Date: _____

Tank Identification Number	Tank No. ___		Tank No. ___		Tank No. ___		Tank No. ___	
1. Release Detection (Mark all that apply)	TANK	PIPING	TANK	PIPING	TANK	PIPING	TANK	PIPING
A. Manual tank gauging	☐		☐		☐		☐	
B. Tightness testing	☐	☐	☐	☐	☐	☐	☐	☐
C. Inventory controls	☐		☐		☐		☐	
D. Automatic tank gauging	☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐	☐	☐	☐	☐	☐	☐	☐
G. Interstitial monitoring double walled tank/piping	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring or secondary containment	☐	☐	☐	☐	☐	☐	☐	☐
I. Automatic line leak detectors		☐		☐		☐		☐
J. Other method allowed by Implementing Agency.	☐	☐	☐	☐	☐	☐	☐	☐
Please specify.	_____		_____		_____		_____	
2. Spill and Overfill Protection								
A. Overfill device installed.	☐		☐		☐		☐	
B. Spill device installed.	☐		☐		☐		☐	

X. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission.)

Name of owner or owner's authorized representative (Print):

William Redmond — Owner Representative
Title:

William Redmond — 6/15/98
Signature: Date:

SHERRY LABORATORIES

INDIANA LOUISIANA OKLAHOMA

Metlab Testing Services, Inc.

10835 E. Independence, Suite 102 • Tulsa, Oklahoma 74116-5673
918-234-7111 • 800-324-5757 • Fax 918-234-7152

Environmental Division

ERI MLTS# 98-3788 SAM# 9806138-01A

ATTN: BILL REDMOND DATE RECEIVED: 06/10/98 CONTACT VERNON

COLLECTED BY: BILL REDMOND DATE COLLECTED: 06/04/98 1330 ID UST REMOVAL 060498A

BTEX BY EPA METHOD 5030/8021

PARAMETER	RESULT
BENZENE	<0.002
TOLUENE	<0.002
ETHYL BENZENE	<0.002
XYLENES	<0.006

GASOLINE RANGE ORGANICS BY EPA METHOD 5030/8015 MOD

TPH	<0.010

SURROGATE %RECOVERY FOR BTEX 92 SURROGATE %RECOVERY FOR TPH 91

Notes and Definitions:

ANALYST	KAR
UNITS	mg/kg
MATRIX	SOIL
INSTRUMENT	GC
ANALYZED	06/12/98

Sampling Information:

QA/QC RESULTS

PARAMETER	DUPLICATE DUPA	DUPB	SPIKE % RECOVERY
BENZENE	0.027	0.026	90
TOLUENE	0.027	0.025	90
ETHYL BENZENE	0.027	0.025	90
TPH	0.290	0.276	97

Results obtained from a sample in the same batch.

COMMENTS:

Approved by: Vernon Seaman Dated: 06/15/98
Vernon Seaman, Director
Environmental Services

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98-06-138

ERI

PO BOX 1330
BROKEN ARROW, OK 74013-1330

918-251-8114
FAX 918-251-9193

CHAIN OF CUSTODY RECORD

Project Name	Proj. Location
UST Removal	4993 S. Union
Samplers (*Signature*)	Lab Used
[signature]	

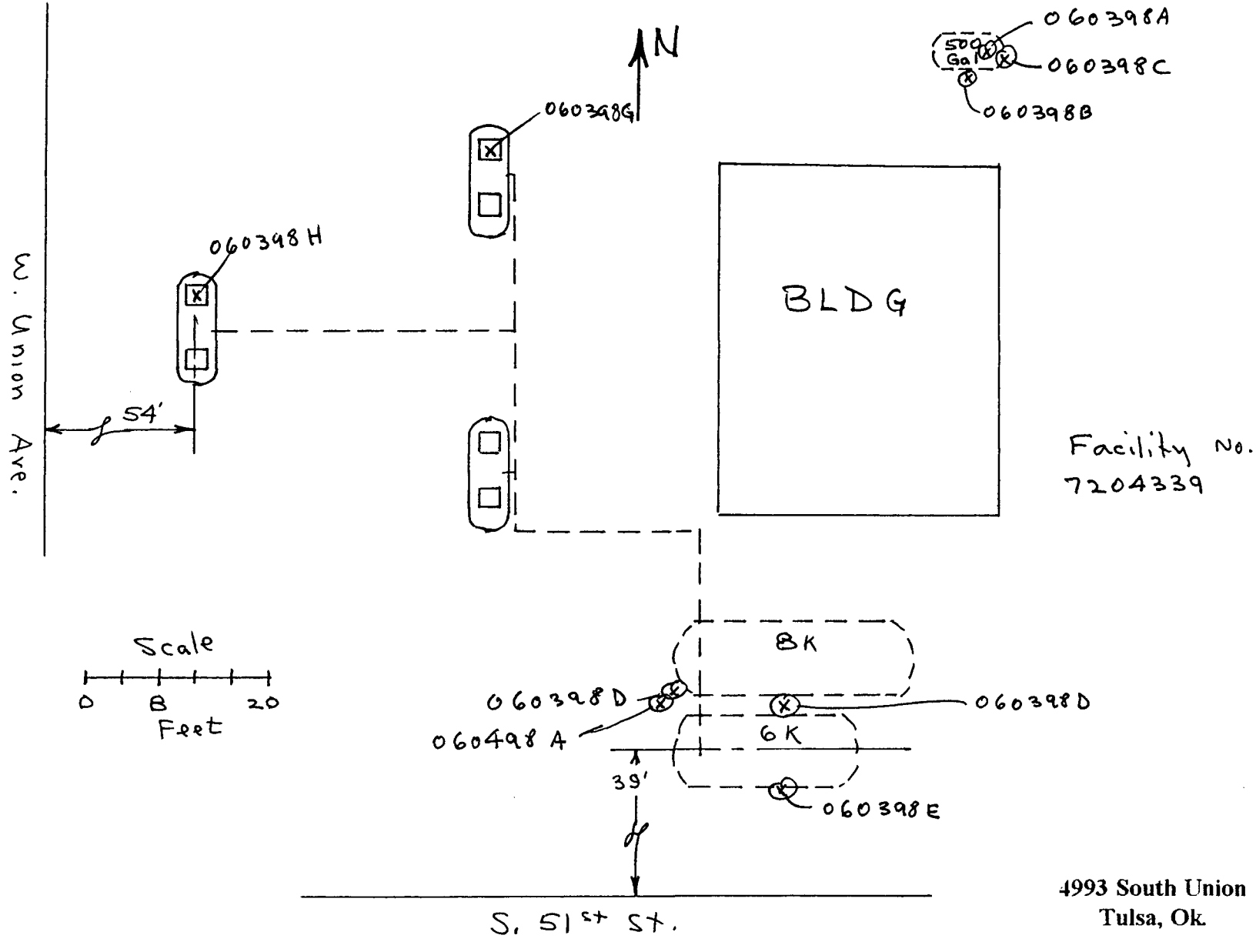
NO.	SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	PRESERVATIVE ADDED	NO. OF CONTAINERS	ANALYSES REQUESTED: TPH - 8015	BTEX						O & G	REMARKS
1	060498A	4 June 98	1:30 P	Soil			X	X						O	

Relinquished by: [signature]	Date: 10 Jun 98	Time: 4:30 P	Received by:	Date	Time
Relinquished by:			Received by:		
Relinquished by:			Received by:		Approx. Completion Date
Relinquished by:			Received for Lab by: Cindy Cuder	6/10/98	1630

Approx. Analysis Cost

METHOD OF SHIPMENT (CIRCLE ONE): FED EX UPS COURIER HAND DELIVERY OTHER (SPECIFY):

COMMENTS:



4993 South Union
Tulsa, Ok.

by
ERI
June 1998

BOB ANTHONY
Commissioner

DENISE A. BODE
Commissioner

ED APPLE
Commissioner

OKLAHOMA
Corporation Commission

P.O. BOX 52000-2000
OKLAHOMA CITY OKLAHOMA 73152-2000

Jim Thorpe Building
Telephone: (405)521-3107
FAX: (405)521-6576

Petroleum Storage Tank Division

Tom Tucker, Director

July 9, 1998

Mr. Mark Hill
Hill Enterprises
4129 S.W. Boulevard
Tulsa, Oklahoma 74107

Reference: Facility #7204339, Removal and Closure Report for 1-8,000 gal, 1-6,000 gal and 1-500 gal underground storage tanks located at Hill's APCO, 4999 South Union, Tulsa, Oklahoma.

Dear Sir:

The Oklahoma Corporation Commission is in receipt of your report covering the removal and closure of 1-8,000 gallon, 1-6,000 gallon and 1-500 gallon UST's at the referenced site between June 3 and June 5, 1998. A review of the soil testing reports dated **June 15, 1998,** indicates the facility does not exceed the action levels established by the Oklahoma Corporation Commission. The subject tanks are hereby considered closed within the standards prescribed by the Oklahoma Corporation Commission. Please be advised, however, that any future contamination found may require remediation.

Thank you for your cooperation and assistance to protect the waters of Oklahoma for future generations. If you have any questions, please call (405) -521-3505.

Sincerely,

William F. Hansen

William F. Hansen P.E.
Sr. Environmental Engineer OCC

cc: Facility File #7204339
Rick Heck
William Redmond

IMAGED 10/11/2012

BOB ANTHONY
Commissioner

PATRICE DOUGLAS
Commissioner

DANA MURPHY
Commissioner

OKLAHOMA CORPORATION COMMISSION
PETROLEUM STORAGE TANK DIVISION
(405) 521-6397 FAX: (405) 522-6672
www.occeweb.com

JIM THORPE BLDG, ROOM 245 • P.O. BOX 52000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

72-06116

October 9, 2012

QuikTrip Corporation
4705 South 129th East Avenue
Tulsa, OK 74134

Reference: Petroleum storage tank closure at Former QuikTrip Store # 9C, 4966 South Union, Tulsa, OK; Facility ID # 72-06116

Dear Registered Tank Owner,

We received an Underground Tank Closure Report on October 2, 2012 from Conestoga-Rovers & Associates for closure of (3) 12,000 gallon fiberglass reinforced plastic underground storage tanks and associated piping removed on August 23, 2012 at the above referenced location.

Based on soil sampling results, the OCC believes that there is no contamination of concern at this site at this time. The subject tanks and associated piping are hereby considered permanently closed in accordance with OCC regulations. Should future environmental problems occur, which the OCC determines may be related to this site, additional investigation and corrective action may be required in accordance with State Law. If you have any questions regarding this matter, please contact me at (405) 521-6397.

Sincerely yours,

Ted Lowery
Environmental Compliance Analyst

cc: Consultant

IMAGED 10/11/2012

UNDERGROUND STORAGE TANK CLOSURE REPORT FORM

Submit this Report & Attachments within 45 days of scheduled permanent closure

Failure to submit the Tank Closure Report within 45 days is a violation of rule 165:25-1-55 subject to a $250 penalty.

PAC-0002674 (CONFIRMATION #) | (BF#) | 7206116 (FACILITY I.D. #)

QuikTrip Corporation (OWNER'S NAME)	QuikTrip #9 (LOCATION NAME)
4705 South 129th East Avenue (MAILING ADDRESS)	4966 South Union (LOCATION ADDRESS (PHYSICAL LOCATION))
Tulsa / OK / 74134 (CITY / STATE / ZIP)	Tulsa / OK / 74107 (CITY / STATE / ZIP)
Tulsa / 918-625-8941 (COUNTY / AREA CODE/TELEPHONE)	Tulsa / None-closed (COUNTY / AREA CODE/TELEPHONE)
08/27/12 / 07/2012 (DATE WORK COMPLETED / DATE TANKS LAST USED)	0 active (NEW INSTALLATION OR NUMBER/SIZE OF ACTIVE TANKS)
3 / 12,000 (NUMBER/SIZE OF TANKS REMOVED)	3 fiberglass tanks good condition, no holes other than several accidental holes (CONDITION OF REMOVED TANKS & LINES-VISIBLE HOLES?)

DESCRIBE DISPOSAL /DISPOSITION OF REMOVED TANKS AND LINES (Tanks cannot be reused unless recertified by manufacturer. Cannot be used as culverts, etc.) **3, 12,000-gallon fiberglass tanks destroyed on site and placed in roll-off box for disposal in a landfill. Copper product lines were removed and disposed at a recycling facility.**

- **Were samples collected at each elbow, connection in the piping run, or at least every 20 feet** Yes
- **Were samples collected under each tank and down gradient wall?** Yes
- **Was excavated soil removed from site?** No
- **Was soil manifested to a permitted landfill?** No
  Name of Landfill N/A
- **Was backfill returned to the excavation?** Yes

NUMBER/SIZE OF TANKS CLOSED-IN-PLACE -- INDICATE TYPE OF INERT MATERIAL USED: Difused air blower

- **Assess the site for potential contamination by testing soil and/or groundwater; OCC approved by:**
- **Were field-screening instruments used?** Yes ■ **Type & Model Number**: PID – MiniRae 3000
- **Date instrument last calibrated:** 08/17/2012 ■ **Calibrated to (type gas):** 100 ppm isobuytlene

NOTE: If soil or groundwater samples are used for site assessment, person collecting samples must be supervised by a Licensed Remediation Consultant.

Vernon C. Ashworth (NAME OF LICENSED REMEDIATION CONSULTANT)	Conestoga-Rovers & Associates (CRA) (COMPANY)		
11004 East 51st Street (ADDRESS)	Tulsa (CITY)	OK (STATE)	74146 (ZIP)

I certify I have direct knowledge the samples were taken at locations where contamination would most likely have occurred:

Vern C. Ash 38 (CONSULTANT SIGNATURE/LICENSE #)	09/26/12 (DATE SIGNED)	918-828-2424 (AREA CODE/TELEPHONE)

- **Attach a site sketch that includes:**
  (a) North arrow (b) tank pit location (c) proximity of tank pit to roads, buildings or other landmarks measured in feet; (d) piping layout and pump island location(s) (e) soil sample locations, sample depths, and sample identification.
- **Also attach:** (a) scheduling letter (b) table of lab results & reports c) waste manifest(s) (d) certificate of destruction for tank(s) (e) photographic documentation (f) description of site activities and observations

PLEASE NOTE THAT INCOMPLETE OR MISSING INFORMATION WILL CAUSE REPORT TO BE RETURNED

TANK REMOVAL ACTIVITIES MUST BE SUPERVISED AT ALL TIMES BY LICENSED UST REMOVER

Vernon C. Ashworth (NAME OF LICENSED REMOVER)	Conestoga-Rovers & Associates (CRA) (COMPANY)		
11004 East 51st Street (ADDRESS)	Tulsa (CITY)	OK (STATE)	74146 (ZIP)

I certify that I personally supervised all (beginning with breakout of concrete) onsite tank removal activities:

Vern C. Ash 38 (UST REMOVER SIGNATURE/LICENSE #)	09/26/12 (DATE SIGNED)	918-828-2424 (AREA CODE/TELEPHONE)

OKLAHOMA CORPORATION COMMISSION, PETROLEUM STORAGE TANK DIVISION
P. O. BOX 52000, OKLAHOMA CITY, OK 73152-2000
(405) 521-4683

(Revised 07-2004)

IMAGED 10/11/2012

REGISTRATION FOR PETROLEUM STORAGE TANKS

OKLAHOMA CORPORATION COMMISSION
STORAGE TANK PROGRAM
P.O. Box 52000, Room 238
Oklahoma City, OK 73152-2000

OK to close. TL

TYPE OF NOTIFICATION		STATE USE ONLY
☐ A. New Facility	☐ B. Amended	ID NUMBER: 72-06116
☒ C. Closure		DATE RECEIVED: 10-2-12
Date of Ownership Transfer:	N/A	A. Date entered into computer: 10-9-12
Total No. of Tanks at Facility:	3	B. Data entry clerk initials: TL
Number of UST's at Facility:	3	C. Owner was contacted to clarify responses.
Number of AST's at Facility:	N/A	Comments:

RECEIVED 2012 OCT 2 PM 1:45 PETROLEUM STORAGE TANK

INSTRUCTIONS

Form must be signed at bottom of UST Page 3 or AST Page 3. Please type or print in ink. This form must be completed for each location containing petroleum storage tanks. If more than five (5) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

GENERAL INFORMATION

In 1998 the Legislature combined statutory provisions on underground storage tanks and aboveground storage tanks so that our laws now refer simply to petroleum storage tanks, giving responsibility for their regulation to the Petroleum Storage Tank Division of the Corporation Commission. The forms for the registration of petroleum storage tanks have been revised to have three parts. The first is this page with general information. The second is for listing underground storage tanks and the third for listing aboveground storage tanks. Underground petroleum storage tanks over 110 gallons must be registered, except for residential and non-commercial agricultural tanks of less than 1,100 gallons. Aboveground petroleum storage tanks over 110 gallons must be registered, except for farm and ranch tanks or tanks at fleet and commercial facilities with less than 2,100 gallons individual storage capacity.

I. OWNERSHIP OF TANK (S)		II. LOCATION OF TANK (S)	
Owner Name (Corporation, Individual, Public Agency, or other entity)		Facility Name of Company Site Identifier, as applicable	
QuikTrip Corporation		Former QuikTrip Retail Store #9C	
4705 S. 129th E. Ave.		4966 South Union	
Street Address		Street Address (PO Box NOT acceptable)	
Tulsa, OK	74134	Tulsa, OK	74107
City & State	Zip Code	City & State	Zip Code
Tulsa	(918) 615-7865	Tulsa	(N/A) N/A
County	(Area Code) Phone Number	County	(Area Code) Phone Number
(918) 615-7449	mconner@quiktrip.com	N/A - Closed	
Fax #	E-mail Address	Fax #	

If known, give the geographic location of tanks by degrees, minutes, and seconds. (Example: Lat. 2, 36, 12N Long. 85, 24, 17W)

Latitude: 36° 05′ 24.96″ N Longitude: 96° 00′ 43.12″ W

IMAGED 10/11/2012

III. INDIAN LANDS

Tanks are held in Trust by the United States Bureau of Indian Affairs ☐

Tribe or Nation ____

IV. TYPE OF OWNER

☐ Public	☒ Private
(Owned by a government)	(NOT owned by a government)

V. TYPE OF FACILITY

If PUBLIC please mark which type:	If PRIVATE please mark which type:
☐ Federal	☒ Retail
☐ State	☐ Bulk distributor – no retail sales
☐ County	☐ Fleet and Commercial
☐ Municipal	☐ Airport
	☐ Marina
	☐ Emergency Generator

VI. CONTACT PERSON IN CHARGE OF TANKS

Name: **Mike Conner** Job Title: **Sr. Environmental Compliance Eng.** Phone Number: **(918) 615-7865**

Address: **4705 S. 129th E. Ave.** City: **Tulsa** State: **OK** Zip Code: **74134**

VII. FINANCIAL RESPONSIBILITY

I have met the financial responsibility requirements in accordance with CFR Subpart H.

In Oklahoma this means you are ready and able to pay the deductible amount up to 1% of the total cost of cleanup not to exceed $5,000 on any cleanup of any pollution caused by a leaking storage tank.

(Financial Responsibility must be met and acknowledged by checking this box.) ☒

IMAGED 10/11/2012

I. UNDERGROUND STORAGE TANKS ATTACHMENT

(Complete for each tank at this location)

Tank Identification Number (use OCC assigned tank number if existing tank)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No.	Tank No.
1. Status of Tank (mark only one)					
Currently in Use	☐	☐	☐	☐	☐
Permanent Closure (Complete section II, UST Page 2)	☒	☒	☒	☐	☐
2. Date of Installation (month/year)	4/82	4/82	4/82		
2a. Is Tank Compartmentalized?	☐Yes ☒No	☐Yes ☒No	☐Yes ☒No	☐Yes ☐No	☐Yes ☐No
3. Estimated Total Capacity of Tank (and list separate compartments here)	12,000 /	12,000 /	12,000 /	/	/
4. Material of Construction (mark all that apply)					
Coated or Bare Steel	☐	☐	☐	☐	☐
Cathodically Protected Steel	☐	☐	☐	☐	☐
Impressed Current (IC)/Sacrificial (Sac)					
Composite (Steel with Fiberglass)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☒	☒	☒	☐	☐
Lined Interior	☐	☐	☐	☐	☐
Double Walled	☐	☐	☐	☐	☐
Polyethylene Tank Jacket	☐	☐	☐	☐	☐
Excavation Liner	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please specify					
5. Piping Material (mark all that apply)					
Steel (Must also be cathodically protected)	☐	☐	☐	☐	☐
Copper (Must also be cathodically protected)	☒	☒	☒	☐	☐
Cathodically Protected	☒	☒	☒	☐	☐
Fiberglass	☐	☐	☐	☐	☐
Flexible Plastic	☐	☐	☐	☐	☐
Double Wall	☐	☐	☐	☐	☐
Secondary Containment or Chase	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					

IMAGED 10/11/2012

UNDERGROUND STORAGE TANKS ATTACHMENT
(Complete for each tank at this location)

Tank Identification Number (use OCC assigned tank number if existing tank)	Tank No. 1	Tank No. 2	Tank No. 3	Tank No.	Tank No.
6. Piping (Mark all that apply)					
Pressure	☒	☒	☒	☐	☐
Safe Suction	☐	☐	☐	☐	☐
US Suction	☐	☐	☐	☐	☐
Pressure piping must have continuous line leak detection (mechanical or electronic). Suction piping, no check valve at tank (verifiable) and only one valve under pump, does not require line tightness tests or monthly monitoring of line. US Suction piping with valve at tank must be tightness tested every 3 years.					
7. Substance Currently or Last Stored					
Gasoline	☒	☒	☒	☐	☐
Diesel	☐	☐	☐	☐	☐
Ethanol	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Heating Oil	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other (please specify with % if blend)					

II. TANKS OUT OF USE OR CHANGE IN SERVICE

1. Closing of Tank	☐ Temporary ☒ Permanent	☐ Temporary ☒ Permanent	☐ Temporary ☒ Permanent	☐ Temporary ☐ Permanent	☐ Temporary ☐ Permanent
A. Estimated date last used (mo/day/yr)	7/31/12	7/31/12	7/31/12		
B. Estimated date tank closed (mo/day/yr)	8/23/12	8/23/12	8/23/12		
C. Were tank & all piping removed from ground-check if yes	☒	☒	☒	☐	☐
D. Tank cleaned & closed in ground	☐	☐	☐	☐	☐
E. In-place closure pre-approved	☐	☐	☐	☐	☐
F. Tank filled with inert material	☐	☐	☐	☐	☐
Describe type of inert material used					
G. Change in service	☐	☐	☐	☐	☐
2. Date Site Assessment Completed	8/23/12	8/23/12	8/23/12		
Evidence of a leak detected?	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☐ No	☐ Yes ☐ No

IMAGED 10/11/2012

UNDERGROUND STORAGE TANKS

III. CERTIFICATION OF COMPLIANCE

Complete Installer information for any licensed activities including newly installed and or upgraded tanks at this location)

OATH:	**I certify the information concerning installation that is provided in UST Section I is true to the best of my belief and knowledge.**

Installer Name:		**OCC License #:**	
Position:		**Company:**	
Signature:		**Install date:**	

Cathodic Protection Installer Signature:	
NACE Certification #:	**NACE Certification Title:**

Tank Identification Number	**Tank No.**		**Tank No.**		**Tank No.**		**Tank No.**		**Tank No.**	
1. Release Detection-mark all that apply	**Tank**	**Piping**	**Tank**	**Piping**	**Tank**	**Piping**	**Tank**	**Piping**	**Tank**	**Piping**
A. Manual tank gauging	☐		☐		☐		☐		☐	
B. Tightness testing	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
C. Monthly inventory reconciliation	☐		☐		☐		☐		☐	
D. Statistical inventory reconciliation	☐		☐		☐		☐		☐	
E. Vapor monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
F. Groundwater monitoring	☐		☐		☐		☐		☐	
G. Automatic tank gauging (specify tanks and/or lines)	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
H. Interstitial monitoring	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
I. Mechanical LLDs		☐		☐		☐		☐		☐
J. Electronic LLDs-no ATG		☐		☐		☐		☐		☐
2. Spill Containment and Overfill Device installed in accordance with OCC rules		☐		☐		☐		☐		☐

IV. CERTIFICATION (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission)

Mike Conner	**Title:Senior Environmental Comp. Eng.**
(Print) Name of owner or owner's legal representative	
X Mike Conner	**Date:** 9/27/12
Signature	**(Submit this form with original signature only.)** **UST Page 3**

OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE MUST SIGN UST PAGE 3 OR AST PAGE 3

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CONESTOGA-ROVERS
& ASSOCIATES

11004 East 51st Street
Tulsa, OK 74146
Telephone: (918) 828-2424 Fax: (918) 828-0202
http://www.craworld.com

September 27, 2012 CRA Ref: 079310

Mr. Nick Poynter
Oklahoma Corporation Commission
Petroleum Storage Tank Division – Compliance
Jim Thorpe Building, Room 238
Oklahoma City, OK 73152-2000

RE: UST Closure Report, Former QuikTrip Retail Store #9C
4966 South Union, Tulsa, Oklahoma 74107
Facility ID: 72-06116

Dear Mr. Poynter:

Please find the following description of activities and observations regarding the underground storage tank (UST) closure completed at the referenced address (Site) on August 23, 2012. Vernon Ashworth of Conestoga-Rovers & Associates (CRA) was the on-Site licensed UST consultant and remover (#38). The UST Closure activities were performed in compliance with Oklahoma Corporation Commission (OCC) Rules and Regulations OAC 165:25-3-60. The Site is located on the northwest corner at the intersection of South Union and West 51st Street, Tulsa, Oklahoma. A Site Location Map, showing topographic features in the vicinity of the Site, is included as Figure 1. A recent aerial photograph is included as Figure 2. Site Details are included as Figure 3. Soil sample locations are shown on Figure 4. Site photographs documenting the UST closure activities are also included with this report.

The Site UST system consisted of three, 12,000-gallon fiberglass-reinforced plastic USTs and associated copper product lines. The UST basin/tank pit was located along the west side of a north-south row of four pump island dispensers. Two of these dispensers (Dispenser #3 and Dispenser #4) were located within the east edge of the UST basin. The locations of the UST basin and pump island dispensers are shown on Figure 3 and Figure 4.

Prior to removing the USTs, the product lines were blown back to the USTs prior to removal to evacuate residual fuel. All fluids were removed from the tanks prior to the excavation. The fluids recovered were placed in 55-gallon drums and subsequently disposed at a landfill (Note: A copy of the waste manifest for the drums is included in the attached "Correspondence and Certifications" section). The tanks were made inert using a Venturi air blower system. A 4-gas meter was utilized to ensure the oxygen level in the tanks were below the lower explosive limits (LEL) prior to UST removal activities.

After removing the concrete, backfill material (pea-gravel) was excavated from around each tank and placed on plastic sheeting adjacent to the UST basin. Composite samples were collected from the backfill

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material before returning it to the tank pit (after removal of the USTs). The three USTs were removed from the basin and placed on the ground. The USTs were visually inspected for evidence of holes, but none were observed (other than several accidental holes in one tank during excavation and removal). The fiberglass tanks were destroyed on Site and the debris was placed in a roll-off box for subsequent disposal at a landfill. A Certificate of Destruction is included in the "Certification and Correspondence" section of this report. The copper product lines were pulled from the dispensers leading to the UST basin. The copper piping was removed from the Site and transported to a recycling facility.

SOIL SAMPLING AND ANALYTICAL RESULTS

A total of 13 confirmation closure soil samples were collected and submitted to the laboratory for analysis. One sample was collected in the native soil beneath each UST fill port at a depth of approximately 12 feet below ground surface (bgs). One down-gradient side-wall sample, determined to be the east wall, was collected at a depth of approximately 5 feet bgs. One tank pit water sample was also collected. One soil sample was collected in the native soil beneath each of the four dispensers (except dispensers #3 and #4, which were within the backfill material of the tank pit) at a depth of approximately 4 feet bgs. Soil samples were collected beneath the piping trench leading from Dispenser #1 and Dispenser #2 every 20 feet and at pipe connections at a depth of approximately 3 feet bgs (Note: The piping to Dispensers #3 and #4 were located within the tank pit). No piping elbows were observed along the copper piping – the piping was gradually curved leading from dispensers #1 and #2. Soil sample locations are shown on Figure 3.

All native soil samples were field screened with a Multi-Rae 3000® photoionization detector (PID) prior to sample collection to detect for the potential presence of volatile organic compounds (VOCs). The PID was calibrated with 100 parts per million (ppm) isobutylene gas prior to its use. No PID readings were detected above 9 ppm. The soil samples were shipped to Test America in Nashville, Tennessee for analysis of the following parameters: benzene, toluene, ethylbenzene, xylenes (BTEX) and total petroleum hydrocarbons – gasoline range organics (TPH-GRO).

Soil samples results for all closure soil samples were either below analytical detection limits or below the OCC action levels. A summary of the analytical results for the confirmation soil samples is presented as Table 1. The tank pit water sample results were below the OCC action levels for groundwater. A summary of the analytical results for the tank pit water sample is presented as Table 2.

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BACKFILL SAMPLING AND ANALYTICAL RESULTS

A total of approximately 450 cubic yards of backfill was removed from the tank hold. Twelve (12) composite samples were collected from the backfill for detail chemical analysis. The backfill samples were shipped with the confirmation soil samples to Test America in Nashville, Tennessee and analyzed for BTEX and TPH-GRO. The analytical results indicated no elevated concentrations of these parameters from the backfill samples. A summary of the analytical results for the backfill samples are presented as Table 3.

If you have questions concerning the activities and descriptions in this report, please contact me at 918-828-2424 or email at vashworth@CRAworld.com .

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES

Vernon Ashworth
Project Manager/Geologist
OCC Licensed UST Consultant #38
OCC Licensed UST Remover #38

VA/va

Cc: Mike Conner, QuikTrip Corporation

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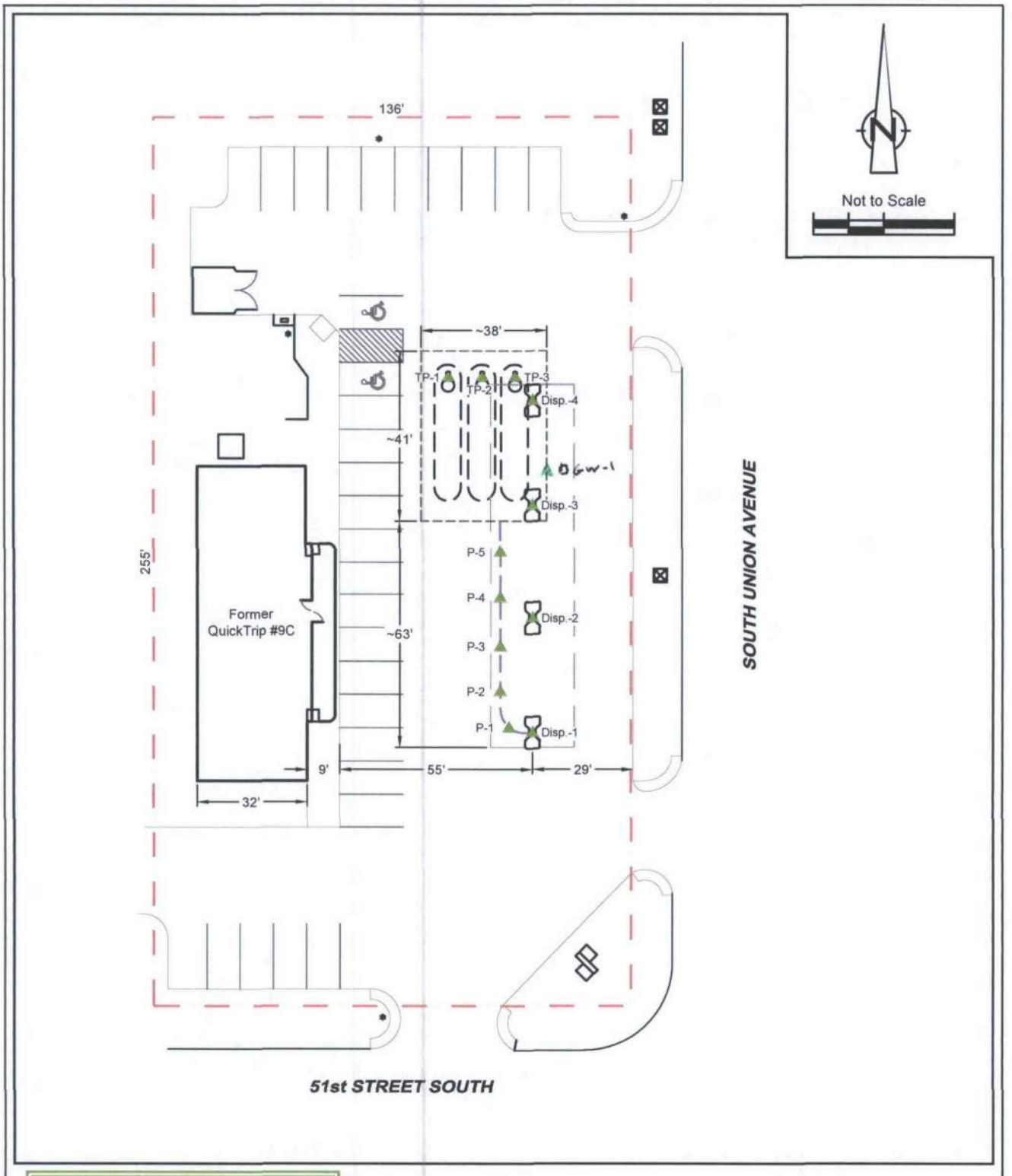


LEGEND

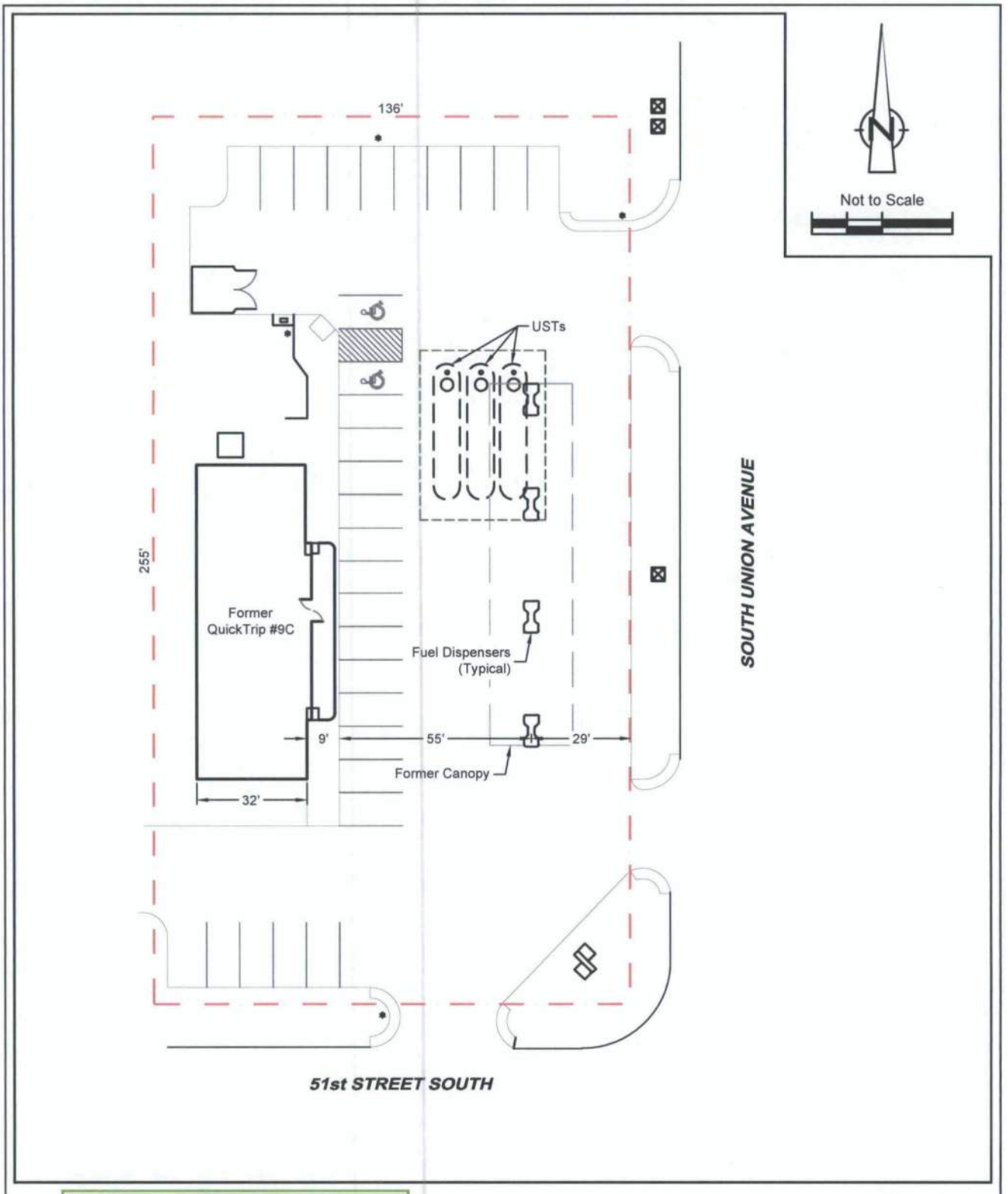
- Sample Location
- Product Piping
- Approximate Subject Site Boundary
- Light Pole

figure 4

SOIL SAMPLE LOCATIONS
FORMER QUICKTRIP #9 UST CLOSURE
4966 S. UNION AVENUE, TULSA OKLAHOMA
QuickTrip Corporation

079310-01(000)GN-DL001 SEPT 10/2012

IMAGED 10/11/2012



LEGEND
Approximate Subject Site Boundary
Light Pole

figure 3

SITE DETAILS
FORMER QUICKTRIP #9 UST CLOSURE
4966 S. UNION AVENUE, TULSA OKLAHOMA
QuickTrip Corporation

079310-01(000)GN-DL001 SEPT 10/2012

IMAGED 10/11/2012

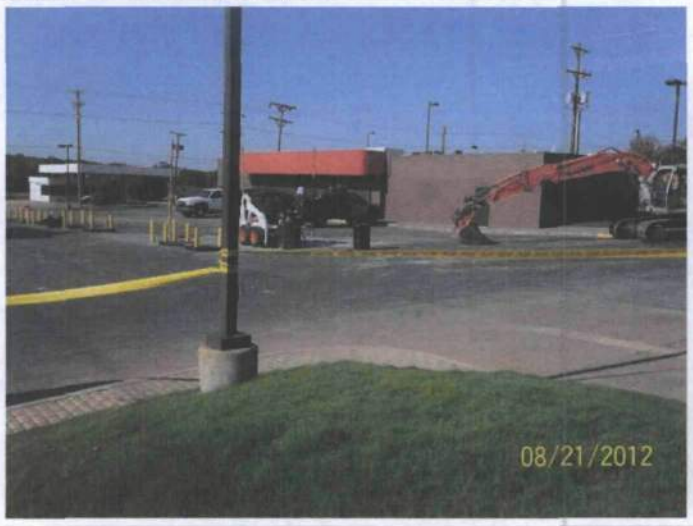


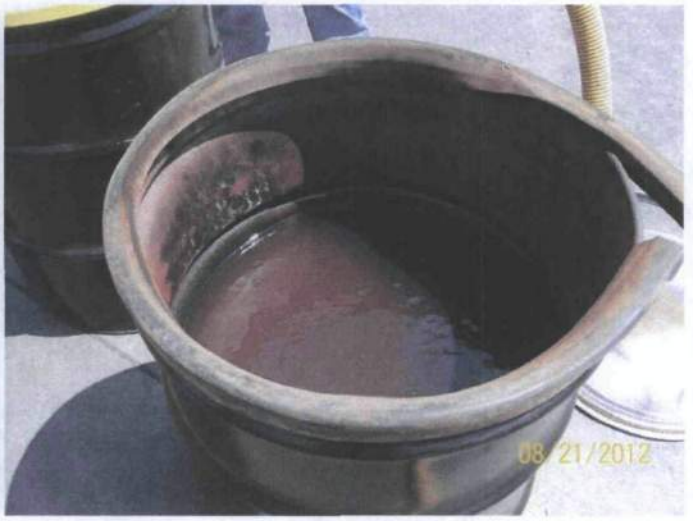
PHOTO 01: View southwest, from the northeast corner of the site, showing the work area and the barricade tape located along the north boundary.

PHOTO 02: View south, of the UST locations and the former dispenser islands. –Note the vent tubes that are in place on each of the three USTs: Tank #1(right), Tank #2 (middle), and Tank #3 (left).

PHOTO 03: Crew breaking concrete over the USTs.

PHOTO 04: View of piping on one of the dispensers. The caps have been removed prior to draining any remaining product from the product lines/piping to the tanks.

PHOTO 05: View of crew recovering product from the product piping.



. *PHOTO 06:* Product recovered from the product piping.

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PHOTO 07: Crew removing concrete over the UST area.

PHOTO 08: Placing concrete in a pile along the north boundary of the site.

PHOTO 09: Excavating backfill along the west side of the tank pit, over Tank #1.

PHOTO 10: Placing backfill material on plastic sheeting on the north side of the site.

PHOTO 11: View of Tank #1 exposed during excavating. Note the high water level in the tank pit.

PHOTO 12: View of Tank #1, rising from the tank pit due to the high water level.

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PHOTO 13: View north, of the trackhoe excavating between the exposed Tank #1 (left) and Tank #2.

PHOTO 14: View of Tank #2 rising from the tank pit. .

PHOTO 15: View of crew clearing off the top of Tank #2 to expose the vent pipe opening.

PHOTO 16: View of crew breaking concrete above Tank #3 and adjacent to Dispenser #4. Note that Disp. #4 is located along the east side of the tank pit.

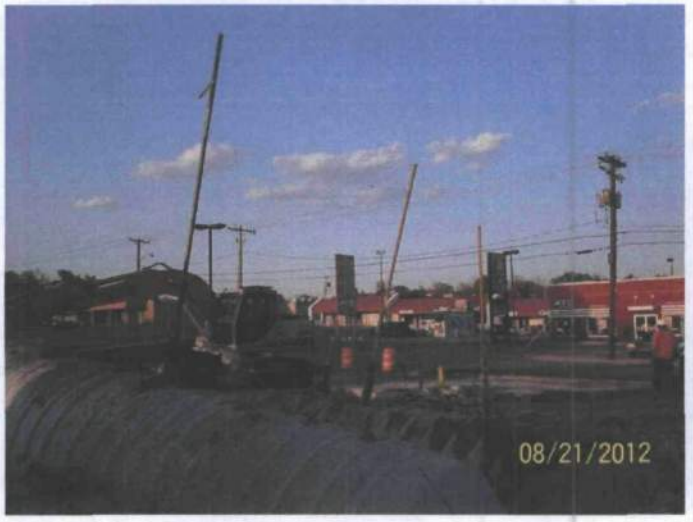

PHOTO 17: View of the vent pipes that were reinstalled on the three USTs at the end of the day.

PHOTO 18: View showing the tank area being barricaded at the end of the day.

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PHOTO 19: View southwest, of trackhoe excavating Tank #3. Note that this tank is adjacent to Dispenser #4, which is located within the limits of the tank pit.

PHOTO 20: View of Tank #3 after rising from the gorund due to the high water level in the tank pit.

PHOTO 21: View of crew removing residual fluids from the tank prior to purging.

PHOTO 22: View north, of Venturi air blower being used to purge volatile vapors from Tank #1.

. *PHOTO 23*: View of label on Venturi air blower.

PHOTO 24: View of crew using a 4-gas meter to record LEL in Tank #1. After obtaining an LEL reading of less than 5%, the tank was deemed safe for removal from the tank pit.

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PHOTO 25: View north, of Tank #1 being removed from the tank pit.

PHOTO 26: View of trackhoe crushing the end of Tank #1 after removal from the tank pit.

PHOTO 27: View inside Tank #1 showing the tank was mostly dry.

PHOTO 28: View of Tank #2 being purged with Venturi air blower and a crew member using a 4-gas meter to check the LEL inside the tank.

PHOTO 29: View of Tank #2 (middle tank) being removed from the tank pit.

PHOTO 30: View showing the end of Tank #2 (right) after removal. .

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PHOTO 31: View inside Tank #2, showing the tank is dry and relatively clean.

PHOTO 32: View of the Venturi air blower purging volatile vapors from Tank #3. While purging, crew set up to remove concrete over the piping trench area.

PHOTO 33: View of trackhoe removing concrete over the piping trench area leading from the tank pit to dispensers #1 and #2. Note: Dispensers #3 and #4 are located within the tank pit.

PHOTO 34: View of trackhoe excavating at Dispenser #1, the furthest dispenser from the tank pit.

PHOTO 35: View of the three copper product lines leading from Dispenser #1.

PHOTO 36: View northwest, of piping being pulled from the ground, leading from Dispenser #1(lower right side of photo).

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PHOTO 37: View north, showing the trend of the piping being pulled from the ground by the trackhoe.

PHOTO 38: View showing the three product lines being pulled from the ground at Dispenser #2.

PHOTO 39: View north, showing the product line piping being pulled out where the piping enters the tank pit.

PHOTO 40: View at former Dispenser #1, where a soil sample was collected into the native soil beneath the dispenser (sample I.D. - Disp.#1).

PHOTO 41: View of the native soil beneath Dispenser #1.

PHOTO 42: View of the trackhoe excavating beneath the product line piping.

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PHOTO 43: View of the UST Remediation Consultant collecting a soil sample from the trackhoe bucket.

PHOTO 44: View of typical native soil collected beneath an area along the product line piping.

PHOTO 45: View north, showing the locations of the dispenser and piping soil samples. The tank pit is in the far background.

PHOTO 46: View of Tank #3 being removed from the tank pit.

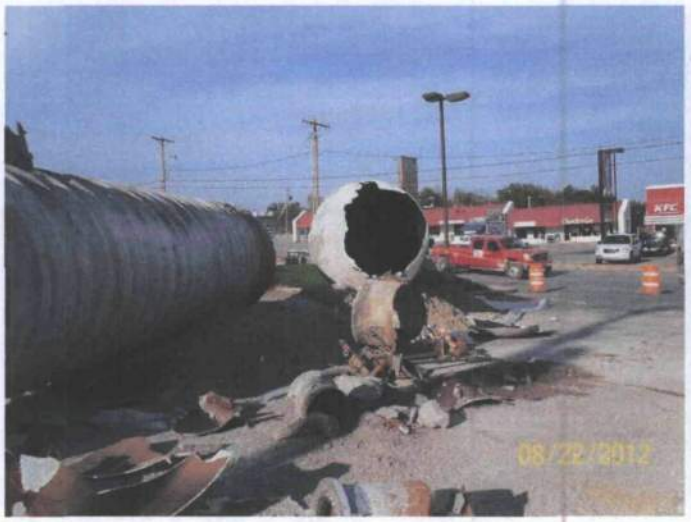

PHOTO 47: View showing the hole made on the end of Tank #3.

. *PHOTO 48:* View inside Tank #3, showing the tank is dry and relatively clean. Note: The debris shown is fiberglass from the hole made in the end of the tank.

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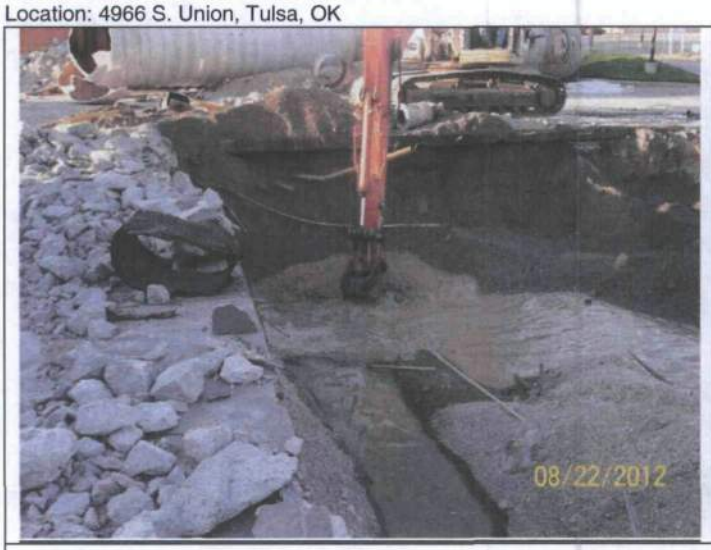

PHOTO 49: View north, of trackhoe excavating beneath the fill port of Tank #1.

PHOTO 50: View of the native soil collected beneath the fill port of Tank #1. This soil was typical of the native soil encountered beneath the other two tanks.

PHOTO 51: View north, showing the destroyed fiberglass tanks being placed into a roll-off box. The roll-off box was subsequently transported to the landfill for disposal.

PHOTO 52: View of the trackhoe placing backfill back into the tank pit.

PHOTO 53: View of the tank pit during backfilling of the existing material.

.*PHOTO 54*: View of crew placing black felt material on the bottom of the tank pit prior to placing additional, clean pea gravel into the former tank pit.

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PHOTO 55: View north, of clean pea gravel being placed into the tank pit.

PHOTO 56: View of a skid loader spreading out the backfill. Note a crerw member apraying water on the material to assist in compaction.

PHOTO 57: View of the skid loader with a compactor attachment compacting the pea gravel. A geotechnical subcontractor took compaction readings after each 6-inch lift.

PHOTO 58: View south, of the former excavation areas after backfilling and compaction. New concrete is to be laid over these areas.

PHOTO 59: View north of the areas shown in Photo 58.

PHOTO 60: View of the roll-off box that is to be transported to the landfill.

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TABLE 1 - UST CLOSURE NATIVE SOIL ANALYTICAL RESULTS

FORMER QUIKTRIP RETAIL STORE #9C

4966 SOUTH UNION AVENUE
TULSA, OKLAHOMA
FACILITY ID: 72-06116 UST CLOSURE CONFIRMATION PAC-0002674

UST CLOSURE						
Sample Number	**Date Sampled**	**Benzene**	**Toluene**	**Ethyl-benzene**	**Xylene(s)**	**TPH (GRO)**
SOIL		Concentrations in milligrams per kilogram (mg/kg)				
OCC Action Levels (Soil)		*0.5*	*40*	*15*	*200*	*50*
Disp.-1	8/22/2012	0.00188	0.00212	0.00210	0.00477	0.823
Disp.-2	8/22/2012	<0.00115	<0.00115	<0.00115	<0.00345	<0.115
Disp.-3	8/22/2012	0.00480	0.00816	0.00197	0.00628	0.245
Disp.-4	8/22/2012	0.00535	0.00838	0.00162	0.0114	1.33
P-1	8/22/2012	0.00236	0.00162	<0.00128	<0.00384	0.355
P-2	8/22/2012	0.00279	0.00207	<0.00121	0.00475	0.916
P-3	8/22/2012	<0.00113	<0.00113	<0.00113	<0.00338	<0.113
P-4	8/22/2012	<0.00111	<0.00111	<0.00111	<0.00333	0.152
P-5	8/22/2012	<0.00114	<0.00114	<0.00114	<0.00343	<0.114
TP-1	8/22/2012	0.00119	0.00119	<0.00113	<0.00340	<0.113
TP-2	8/22/2012	0.00121	<0.00118	<0.00118	<0.00353	<0.118
TP-3	8/22/2012	0.00166	0.00191	<0.00116	<0.00348	<0.116
DGW-1	8/22/2012	<0.00105	<0.00105	<0.00105	<0.00315	<0.105

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TABLE 3 - UST BACKFILL COMPOSITE ANALYTICAL RESULTS

FORMER QUIKTRIP RETAIL STORE #9C

4966 SOUTH UNION AVENUE

TULSA, OKLAHOMA

FACILITY ID: 72-06116 UST CLOSURE CONFIRMATION PAC-0002674

UST COMPOSITE BACKFILL SAMPLING						
Sample Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylene(s)	TPH (GRO)
		Concentrations in milligrams per kilogram (mg/kg)				
BF-1	8/22/2012	0.00439	0.00732	0.00175	0.00525	0.245
BF-2	8/22/2012	0.00334	0.00559	0.00143	0.00435	0.182
BF-3	8/22/2012	0.00323	0.00486	0.00125	0.00457	0.277
BF-4	8/22/2012	0.00252	0.00458	0.00125	0.00439	0.193
BF-5	8/22/2012	0.00324	0.00616	0.00128	0.00787	0.344
BF-6	8/22/2012	0.00322	0.00584	0.00112	0.00567	0.284
BF-7	8/22/2012	0.00802	0.00899	0.00348	0.0191	0.467
BF-8	8/22/2012	0.00329	0.00606	0.00145	0.00334	0.204
BF-9	8/22/2012	0.00371	0.00599	0.00149	0.00441	0.185
BF-10	8/22/2012	0.00322	0.00573	0.00136	<0.00305	0.167
BF-11	8/22/2012	0.00296	0.00579	0.00145	0.00461	0.154
BF-12	8/22/2012	0.00319	0.00534	0.00129	<0.00104	0.18

NOTE: All backfill samples are composite samples (1 per 50 cu. yds.)

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TABLE 2 - UST CLOSURE TANK PIT WATER ANALYTICAL RESULTS

FORMER QUIKTRIP RETAIL STORE #9C

4966 SOUTH UNION AVENUE
TULSA, OKLAHOMA
FACILITY ID: 72-06116 UST CLOSURE CONFIRMATION PAC-0002674

UST CLOSURE						
Sample Number	**Date Sampled**	**Benzene**	**Toluene**	**Ethyl-benzene**	**Xylene(s)**	**TPH (GRO)**
Tank Pit Water	Concentrations in milligrams per Liter (mg/L)					
OCC Action Levels (Groundwater)		***0.005***	***1***	***0.7***	***10***	***2***
GW-1	8/22/2012	<0.001	0.00175	<0.001	<0.003	<0.100

CONESTOGA-ROVERS & ASSOCIATES

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Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-1

Lab Sample ID: 490-4940-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.245		0.0952		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00175		0.000952		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00732		0.000952		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00525		0.00286		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00439		0.000952		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-2

Lab Sample ID: 490-4940-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.182		0.0928		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00143		0.000928		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00559		0.000928		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00435		0.00278		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00334		0.000928		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-3

Lab Sample ID: 490-4940-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.277		0.103		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00125		0.00103		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00486		0.00103		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00457		0.00308		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00323		0.00103		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-4

Lab Sample ID: 490-4940-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.193		0.0996		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00125		0.000996		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00458		0.000996		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00439		0.00299		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00252		0.000996		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: Disp.-4

Lab Sample ID: 490-4940-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	1.33		0.104		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00162		0.00104		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00838		0.00104		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.0114		0.00313		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00535		0.00104		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: Disp.-3

Lab Sample ID: 490-4940-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.245		0.100		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00197		0.00100		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00816		0.00100		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00628		0.00300		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00480		0.00100		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-5

Lab Sample ID: 490-4940-7

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Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-5 (Continued)

Lab Sample ID: 490-4940-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.344		0.0913		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00128		0.000913		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00616		0.000913		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00787		0.00274		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00324		0.000913		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-6

Lab Sample ID: 490-4940-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.284		0.0922		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00112		0.000922		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00584		0.000922		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00567		0.00277		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00322		0.000922		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-7

Lab Sample ID: 490-4940-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.467		0.0879		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00348		0.000879		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00899		0.000879		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.0191		0.00264		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00802		0.000879		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-8

Lab Sample ID: 490-4940-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.204		0.101		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00145		0.00101		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00606		0.00101		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00334		0.00304		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00329		0.00101		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-9

Lab Sample ID: 490-4940-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.185		0.101		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00149		0.00101		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00599		0.00101		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00441		0.00304		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00371		0.00101		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-10

Lab Sample ID: 490-4940-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.167		0.102		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00136		0.00102		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00573		0.00102		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00322		0.00102		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-11

Lab Sample ID: 490-4940-13

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Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-11 (Continued)

Lab Sample ID: 490-4940-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.154		0.0962		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00145		0.000962		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00579		0.000962		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00461		0.00289		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00296		0.000962		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: BF-12

Lab Sample ID: 490-4940-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.180		0.104		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00129		0.00104		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00534		0.00104		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00319		0.00104		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: P-1

Lab Sample ID: 490-4940-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.355		0.128		mg/Kg	1	☼	8015B	Total/NA
Toluene	0.00162		0.00128		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00236		0.00128		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: P-2

Lab Sample ID: 490-4940-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.916		0.121		mg/Kg	1	☼	8015B	Total/NA
Toluene	0.00207		0.00121		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00475		0.00362		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00279		0.00121		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: P-3

Lab Sample ID: 490-4940-17

No Detections

Client Sample ID: P-4

Lab Sample ID: 490-4940-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.152		0.111		mg/Kg	1	☼	8015B	Total/NA

Client Sample ID: P-5

Lab Sample ID: 490-4940-19

No Detections

Client Sample ID: Disp.-1

Lab Sample ID: 490-4940-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C10	0.823		0.108		mg/Kg	1	☼	8015B	Total/NA
Ethylbenzene	0.00210		0.00108		mg/Kg	1	☼	8021B	Total/NA
Toluene	0.00212		0.00108		mg/Kg	1	☼	8021B	Total/NA
Xylenes, Total	0.00477		0.00325		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00188		0.00108		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: Disp.-2

Lab Sample ID: 490-4940-21

No Detections

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Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: TP-1

Lab Sample ID: 490-4940-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00119		0.00113		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00119		0.00113		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: TP-2

Lab Sample ID: 490-4940-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.00121		0.00118		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: TP-3

Lab Sample ID: 490-4940-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00191		0.00116		mg/Kg	1	☼	8021B	Total/NA
Benzene	0.00166		0.00116		mg/Kg	1	☼	8021B	Total/NA

Client Sample ID: DGW-1

Lab Sample ID: 490-4940-25

No Detections

Client Sample ID: GW-1

Lab Sample ID: 490-4940-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.75		1.00		ug/L	1		8021B	Total/NA
Xylenes, Total	8.34		3.00		ug/L	1		8021B	Total/NA

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-1
Date Collected: 08/22/12 07:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-1
Matrix: Solid
Percent Solids: 98.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.245		0.0952		mg/Kg	☼	08/28/12 09:59	08/29/12 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*	*08/28/12 09:59*	*08/29/12 17:50*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00175		0.000952		mg/Kg	☼	08/28/12 09:59	08/29/12 17:50	1
Toluene	0.00732		0.000952		mg/Kg	☼	08/28/12 09:59	08/29/12 17:50	1
Xylenes, Total	0.00525		0.00286		mg/Kg	☼	08/28/12 09:59	08/29/12 17:50	1
Benzene	0.00439		0.000952		mg/Kg	☼	08/28/12 09:59	08/29/12 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*	*08/28/12 09:59*	*08/29/12 17:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.6		0.10		%			08/24/12 17:08	1
Percent Solids	98		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-2

Date Collected: 08/22/12 07:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-2

Matrix: Solid
Percent Solids: 97.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.182		0.0928		mg/Kg	☼	08/28/12 09:59	08/29/12 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*50 - 150*	*08/28/12 09:59*	*08/29/12 18:10*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00143		0.000928		mg/Kg	☼	08/28/12 09:59	08/29/12 18:10	1
Toluene	0.00559		0.000928		mg/Kg	☼	08/28/12 09:59	08/29/12 18:10	1
Xylenes, Total	0.00435		0.00278		mg/Kg	☼	08/28/12 09:59	08/29/12 18:10	1
Benzene	0.00334		0.000928		mg/Kg	☼	08/28/12 09:59	08/29/12 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*	*08/28/12 09:59*	*08/29/12 18:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		0.10		%			08/24/12 17:08	1
Percent Solids	97		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-3

Date Collected: 08/22/12 08:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-3

Matrix: Solid
Percent Solids: 96.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.277		0.103		mg/Kg	☼	08/28/12 09:59	08/29/12 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*	*08/28/12 09:59*	*08/29/12 18:31*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00125		0.00103		mg/Kg	☼	08/28/12 09:59	08/29/12 18:31	1
Toluene	0.00486		0.00103		mg/Kg	☼	08/28/12 09:59	08/29/12 18:31	1
Xylenes, Total	0.00457		0.00308		mg/Kg	☼	08/28/12 09:59	08/29/12 18:31	1
Benzene	0.00323		0.00103		mg/Kg	☼	08/28/12 09:59	08/29/12 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*50 - 150*	*08/28/12 09:59*	*08/29/12 18:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		0.10		%			08/24/12 17:08	1
Percent Solids	97		0.10		%			08/24/12 17:08	1

IMAGED 10/11/2012

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-4

Date Collected: 08/22/12 08:10
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-4

Matrix: Solid
Percent Solids: 96.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.193		0.0996		mg/Kg	☼	08/28/12 09:59	08/29/12 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*	*08/28/12 09:59*	*08/29/12 18:51*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00125		0.000996		mg/Kg	☼	08/28/12 09:59	08/29/12 18:51	1
Toluene	0.00458		0.000996		mg/Kg	☼	08/28/12 09:59	08/29/12 18:51	1
Xylenes, Total	0.00439		0.00299		mg/Kg	☼	08/28/12 09:59	08/29/12 18:51	1
Benzene	0.00252		0.000996		mg/Kg	☼	08/28/12 09:59	08/29/12 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*50 - 150*	*08/28/12 09:59*	*08/29/12 18:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.6		0.10		%			08/24/12 17:08	1
Percent Solids	96		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: Disp.-4

Date Collected: 08/22/12 08:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-5

Matrix: Solid
Percent Solids: 92.6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	1.33		0.104		mg/Kg	☼	08/28/12 09:59	08/29/12 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*	*08/28/12 09:59*	*08/29/12 19:13*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00162		0.00104		mg/Kg	☼	08/28/12 09:59	08/29/12 19:13	1
Toluene	0.00838		0.00104		mg/Kg	☼	08/28/12 09:59	08/29/12 19:13	1
Xylenes, Total	0.0114		0.00313		mg/Kg	☼	08/28/12 09:59	08/29/12 19:13	1
Benzene	0.00535		0.00104		mg/Kg	☼	08/28/12 09:59	08/29/12 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*50 - 150*	*08/28/12 09:59*	*08/29/12 19:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.10		%			08/24/12 17:08	1
Percent Solids	93		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: Disp.-3
Date Collected: 08/22/12 08:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-6
Matrix: Solid
Percent Solids: 95.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.245		0.100		mg/Kg	☼	08/28/12 09:59	08/29/12 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*	*08/28/12 09:59*	*08/29/12 19:32*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00197		0.00100		mg/Kg	☼	08/28/12 09:59	08/29/12 19:32	1
Toluene	0.00816		0.00100		mg/Kg	☼	08/28/12 09:59	08/29/12 19:32	1
Xylenes, Total	0.00628		0.00300		mg/Kg	☼	08/28/12 09:59	08/29/12 19:32	1
Benzene	0.00480		0.00100		mg/Kg	☼	08/28/12 09:59	08/29/12 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*50 - 150*	*08/28/12 09:59*	*08/29/12 19:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.8		0.10		%			08/24/12 17:08	1
Percent Solids	95		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-5

Date Collected: 08/22/12 09:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-7

Matrix: Solid
Percent Solids: 98.1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.344		0.0913		mg/Kg	☼	08/28/12 09:59	08/29/12 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	96		50 - 150	08/28/12 09:59	08/29/12 19:54	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00128		0.000913		mg/Kg	☼	08/28/12 09:59	08/29/12 19:54	1
Toluene	0.00616		0.000913		mg/Kg	☼	08/28/12 09:59	08/29/12 19:54	1
Xylenes, Total	0.00787		0.00274		mg/Kg	☼	08/28/12 09:59	08/29/12 19:54	1
Benzene	0.00324		0.000913		mg/Kg	☼	08/28/12 09:59	08/29/12 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	108		50 - 150	08/28/12 09:59	08/29/12 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.10		%			08/24/12 17:08	1
Percent Solids	98		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-6

Date Collected: 08/22/12 09:10
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-8

Matrix: Solid
Percent Solids: 96.8

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.284		0.0922		mg/Kg	☼	08/28/12 09:59	08/29/12 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*	*08/28/12 09:59*	*08/29/12 20:13*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00112		0.000922		mg/Kg	☼	08/28/12 09:59	08/29/12 20:13	1
Toluene	0.00584		0.000922		mg/Kg	☼	08/28/12 09:59	08/29/12 20:13	1
Xylenes, Total	0.00567		0.00277		mg/Kg	☼	08/28/12 09:59	08/29/12 20:13	1
Benzene	0.00322		0.000922		mg/Kg	☼	08/28/12 09:59	08/29/12 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*	*08/28/12 09:59*	*08/29/12 20:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		0.10		%			08/24/12 17:08	1
Percent Solids	97		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-7

Date Collected: 08/22/12 19:35
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-9

Matrix: Solid
Percent Solids: 97.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.467		0.0879		mg/Kg	☼	08/28/12 09:59	08/29/12 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*50 - 150*	*08/28/12 09:59*	*08/29/12 20:35*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00348		0.000879		mg/Kg	☼	08/28/12 09:59	08/29/12 20:35	1
Toluene	0.00899		0.000879		mg/Kg	☼	08/28/12 09:59	08/29/12 20:35	1
Xylenes, Total	0.0191		0.00264		mg/Kg	☼	08/28/12 09:59	08/29/12 20:35	1
Benzene	0.00802		0.000879		mg/Kg	☼	08/28/12 09:59	08/29/12 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*50 - 150*	*08/28/12 09:59*	*08/29/12 20:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.8		0.10		%			08/24/12 17:08	1
Percent Solids	97		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-8

Date Collected: 08/22/12 19:40
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-10

Matrix: Solid
Percent Solids: 96.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.204		0.101		mg/Kg	☼	08/28/12 09:59	08/29/12 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*	*08/28/12 09:59*	*08/29/12 20:55*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00145		0.00101		mg/Kg	☼	08/28/12 09:59	08/29/12 20:55	1
Toluene	0.00606		0.00101		mg/Kg	☼	08/28/12 09:59	08/29/12 20:55	1
Xylenes, Total	0.00334		0.00304		mg/Kg	☼	08/28/12 09:59	08/29/12 20:55	1
Benzene	0.00329		0.00101		mg/Kg	☼	08/28/12 09:59	08/29/12 20:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*	*08/28/12 09:59*	*08/29/12 20:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.8		0.10		%			08/24/12 17:08	1
Percent Solids	96		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-9

Date Collected: 08/22/12 00:01
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-11

Matrix: Solid
Percent Solids: 96.6

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.185		0.101		mg/Kg	☼	08/28/12 09:59	08/29/12 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*50 - 150*	*08/28/12 09:59*	*08/29/12 21:16*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00149		0.00101		mg/Kg	☼	08/28/12 09:59	08/29/12 21:16	1
Toluene	0.00599		0.00101		mg/Kg	☼	08/28/12 09:59	08/29/12 21:16	1
Xylenes, Total	0.00441		0.00304		mg/Kg	☼	08/28/12 09:59	08/29/12 21:16	1
Benzene	0.00371		0.00101		mg/Kg	☼	08/28/12 09:59	08/29/12 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*50 - 150*	*08/28/12 09:59*	*08/29/12 21:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.4		0.10		%			08/24/12 17:08	1
Percent Solids	97		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-10
Date Collected: 08/22/12 19:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-12
Matrix: Solid
Percent Solids: 98.1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.167		0.102		mg/Kg	☼	08/28/12 09:59	08/29/12 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*	*08/28/12 09:59*	*08/29/12 21:36*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00136		0.00102		mg/Kg	☼	08/28/12 09:59	08/29/12 21:36	1
Toluene	0.00573		0.00102		mg/Kg	☼	08/28/12 09:59	08/29/12 21:36	1
Xylenes, Total	ND		0.00305		mg/Kg	☼	08/28/12 09:59	08/29/12 21:36	1
Benzene	0.00322		0.00102		mg/Kg	☼	08/28/12 09:59	08/29/12 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*	*08/28/12 09:59*	*08/29/12 21:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		0.10		%			08/24/12 17:08	1
Percent Solids	98		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-11

Date Collected: 08/22/12 19:55
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-13

Matrix: Solid
Percent Solids: 96.8

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.154		0.0962		mg/Kg	☼	08/28/12 09:59	08/29/12 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	97		*50 - 150*	*08/28/12 09:59*	*08/29/12 21:57*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00145		0.000962		mg/Kg	☼	08/28/12 09:59	08/29/12 21:57	1
Toluene	0.00579		0.000962		mg/Kg	☼	08/28/12 09:59	08/29/12 21:57	1
Xylenes, Total	0.00461		0.00289		mg/Kg	☼	08/28/12 09:59	08/29/12 21:57	1
Benzene	0.00296		0.000962		mg/Kg	☼	08/28/12 09:59	08/29/12 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*50 - 150*	*08/28/12 09:59*	*08/29/12 21:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		0.10		%			08/24/12 17:08	1
Percent Solids	97		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-12

Date Collected: 08/22/12 20:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-14

Matrix: Solid
Percent Solids: 96.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.180		0.104		mg/Kg	☼	08/28/12 09:59	08/29/12 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*	*08/28/12 09:59*	*08/29/12 22:17*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00129		0.00104		mg/Kg	☼	08/28/12 09:59	08/29/12 22:17	1
Toluene	0.00534		0.00104		mg/Kg	☼	08/28/12 09:59	08/29/12 22:17	1
Xylenes, Total	ND		0.00311		mg/Kg	☼	08/28/12 09:59	08/29/12 22:17	1
Benzene	0.00319		0.00104		mg/Kg	☼	08/28/12 09:59	08/29/12 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*50 - 150*	*08/28/12 09:59*	*08/29/12 22:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.0		0.10		%			08/24/12 17:08	1
Percent Solids	96		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: P-1

Date Collected: 08/22/12 16:55
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-15

Matrix: Solid
Percent Solids: 77.5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.355		0.128		mg/Kg	☼	08/28/12 09:59	08/29/12 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	93		*50 - 150*	*08/28/12 09:59*	*08/29/12 22:38*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00128		mg/Kg	☼	08/28/12 09:59	08/29/12 22:38	1
Toluene	0.00162		0.00128		mg/Kg	☼	08/28/12 09:59	08/29/12 22:38	1
Xylenes, Total	ND		0.00384		mg/Kg	☼	08/28/12 09:59	08/29/12 22:38	1
Benzene	0.00236		0.00128		mg/Kg	☼	08/28/12 09:59	08/29/12 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*50 - 150*	*08/28/12 09:59*	*08/29/12 22:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.10		%			08/24/12 17:08	1
Percent Solids	77		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: P-2
Date Collected: 08/22/12 17:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-16
Matrix: Solid
Percent Solids: 78.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.916		0.121		mg/Kg	☼	08/28/12 09:59	08/29/12 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*50 - 150*	*08/28/12 09:59*	*08/29/12 22:58*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00121		mg/Kg	☼	08/28/12 09:59	08/29/12 22:58	1
Toluene	0.00207		0.00121		mg/Kg	☼	08/28/12 09:59	08/29/12 22:58	1
Xylenes, Total	0.00475		0.00362		mg/Kg	☼	08/28/12 09:59	08/29/12 22:58	1
Benzene	0.00279		0.00121		mg/Kg	☼	08/28/12 09:59	08/29/12 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*	*08/28/12 09:59*	*08/29/12 22:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.10		%			08/24/12 17:08	1
Percent Solids	78		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: P-3
Date Collected: 08/22/12 17:10
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-17
Matrix: Solid
Percent Solids: 84.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.113		mg/Kg	☼	08/28/12 09:59	08/29/12 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*83*		*50 - 150*	*08/28/12 09:59*	*08/29/12 23:19*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00113		mg/Kg	☼	08/28/12 09:59	08/29/12 23:19	1
Toluene	ND		0.00113		mg/Kg	☼	08/28/12 09:59	08/29/12 23:19	1
Xylenes, Total	ND		0.00338		mg/Kg	☼	08/28/12 09:59	08/29/12 23:19	1
Benzene	ND		0.00113		mg/Kg	☼	08/28/12 09:59	08/29/12 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*	*08/28/12 09:59*	*08/29/12 23:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		0.10		%			08/24/12 17:08	1
Percent Solids	**84**		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: P-4

Date Collected: 08/22/12 17:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-18

Matrix: Solid
Percent Solids: 80.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.152		0.111		mg/Kg	☼	08/28/12 09:59	08/29/12 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*75*		*50 - 150*	*08/28/12 09:59*	*08/29/12 23:39*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00111		mg/Kg	☼	08/28/12 09:59	08/29/12 23:39	1
Toluene	ND		0.00111		mg/Kg	☼	08/28/12 09:59	08/29/12 23:39	1
Xylenes, Total	ND		0.00333		mg/Kg	☼	08/28/12 09:59	08/29/12 23:39	1
Benzene	ND		0.00111		mg/Kg	☼	08/28/12 09:59	08/29/12 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*85*		*50 - 150*	*08/28/12 09:59*	*08/29/12 23:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19**		0.10		%			08/24/12 17:08	1
Percent Solids	**81**		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: P-5

Date Collected: 08/22/12 17:40
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-19

Matrix: Solid
Percent Solids: 81.5

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.114		mg/Kg	☼	08/28/12 09:59	08/30/12 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*71*		*50 - 150*	*08/28/12 09:59*	*08/30/12 00:01*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00114		mg/Kg	☼	08/28/12 09:59	08/30/12 00:01	1
Toluene	ND		0.00114		mg/Kg	☼	08/28/12 09:59	08/30/12 00:01	1
Xylenes, Total	ND		0.00343		mg/Kg	☼	08/28/12 09:59	08/30/12 00:01	1
Benzene	ND		0.00114		mg/Kg	☼	08/28/12 09:59	08/30/12 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*83*		*50 - 150*	*08/28/12 09:59*	*08/30/12 00:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18**		0.10		%			08/24/12 17:08	1
Percent Solids	**82**		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: Disp.-1

Date Collected: 08/22/12 16:45
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-20

Matrix: Solid
Percent Solids: 84.0

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	0.823		0.108		mg/Kg	☼	08/28/12 09:59	08/30/12 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*	*08/28/12 09:59*	*08/30/12 00:20*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00210		0.00108		mg/Kg	☼	08/28/12 09:59	08/30/12 00:20	1
Toluene	0.00212		0.00108		mg/Kg	☼	08/28/12 09:59	08/30/12 00:20	1
Xylenes, Total	0.00477		0.00325		mg/Kg	☼	08/28/12 09:59	08/30/12 00:20	1
Benzene	0.00188		0.00108		mg/Kg	☼	08/28/12 09:59	08/30/12 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*50 - 150*	*08/28/12 09:59*	*08/30/12 00:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.10		%			08/24/12 17:08	1
Percent Solids	84		0.10		%			08/24/12 17:08	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: Disp.-2
Date Collected: 08/22/12 17:20
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-21
Matrix: Solid
Percent Solids: 85.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.115		mg/Kg	☼	08/28/12 09:59	09/03/12 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	88		*50 - 150*	*08/28/12 09:59*	*09/03/12 16:37*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00115		mg/Kg	☼	08/28/12 09:59	09/03/12 16:37	1
Toluene	ND		0.00115		mg/Kg	☼	08/28/12 09:59	09/03/12 16:37	1
Xylenes, Total	ND		0.00345		mg/Kg	☼	08/28/12 09:59	09/03/12 16:37	1
Benzene	ND		0.00115		mg/Kg	☼	08/28/12 09:59	09/03/12 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*	*08/28/12 09:59*	*09/03/12 16:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15**		0.10		%			08/24/12 17:24	1
Percent Solids	**85**		0.10		%			08/24/12 17:24	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: TP-1

Date Collected: 08/22/12 19:15
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-22

Matrix: Solid
Percent Solids: 82.8

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.113		mg/Kg	☼	08/28/12 18:45	09/03/12 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*86*		*50 - 150*	*08/28/12 18:45*	*09/03/12 16:59*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00113		mg/Kg	☼	08/28/12 18:45	09/03/12 16:59	1
Toluene	**0.00119**		0.00113		mg/Kg	☼	08/28/12 18:45	09/03/12 16:59	1
Xylenes, Total	ND		0.00340		mg/Kg	☼	08/28/12 18:45	09/03/12 16:59	1
Benzene	**0.00119**		0.00113		mg/Kg	☼	08/28/12 18:45	09/03/12 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*86*		*50 - 150*	*08/28/12 18:45*	*09/03/12 16:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17**		0.10		%			08/24/12 17:24	1
Percent Solids	**83**		0.10		%			08/24/12 17:24	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: TP-2

Date Collected: 08/22/12 19:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-23

Matrix: Solid
Percent Solids: 79.4

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.118		mg/Kg	☼	08/28/12 18:45	09/03/12 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*81*		*50 - 150*	*08/28/12 18:45*	*09/03/12 17:19*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00118		mg/Kg	☼	08/28/12 18:45	09/03/12 17:19	1
Toluene	ND		0.00118		mg/Kg	☼	08/28/12 18:45	09/03/12 17:19	1
Xylenes, Total	ND		0.00353		mg/Kg	☼	08/28/12 18:45	09/03/12 17:19	1
Benzene	**0.00121**		0.00118		mg/Kg	☼	08/28/12 18:45	09/03/12 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*84*		*50 - 150*	*08/28/12 18:45*	*09/03/12 17:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21**		0.10		%			08/24/12 17:24	1
Percent Solids	**79**		0.10		%			08/24/12 17:24	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: TP-3

Date Collected: 08/22/12 18:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-24

Matrix: Solid
Percent Solids: 79.7

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.116		mg/Kg	☼	08/28/12 18:45	09/03/12 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	88		*50 - 150*	*08/28/12 18:45*	*09/03/12 17:40*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00116		mg/Kg	☼	08/28/12 18:45	09/03/12 17:40	1
Toluene	**0.00191**		0.00116		mg/Kg	☼	08/28/12 18:45	09/03/12 17:40	1
Xylenes, Total	ND		0.00348		mg/Kg	☼	08/28/12 18:45	09/03/12 17:40	1
Benzene	**0.00166**		0.00116		mg/Kg	☼	08/28/12 18:45	09/03/12 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*	*08/28/12 18:45*	*09/03/12 17:40*	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20**		0.10		%			08/24/12 17:24	1
Percent Solids	**80**		0.10		%			08/24/12 17:24	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: DGW-1

Date Collected: 08/22/12 19:25
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-25

Matrix: Solid
Percent Solids: 84.2

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.105		mg/Kg	☼	08/28/12 18:45	09/03/12 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*79*		*50 - 150*	*08/28/12 18:45*	*09/03/12 18:00*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00105		mg/Kg	☼	08/28/12 18:45	09/03/12 18:00	1
Toluene	ND		0.00105		mg/Kg	☼	08/28/12 18:45	09/03/12 18:00	1
Xylenes, Total	ND		0.00315		mg/Kg	☼	08/28/12 18:45	09/03/12 18:00	1
Benzene	ND		0.00105		mg/Kg	☼	08/28/12 18:45	09/03/12 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*82*		*50 - 150*	*08/28/12 18:45*	*09/03/12 18:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		0.10		%			08/24/12 17:24	1
Percent Solids	**84**		0.10		%			08/24/12 17:24	1

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Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: GW-1
Date Collected: 08/22/12 11:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-26
Matrix: Water

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100		ug/L			09/02/12 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/02/12 14:10*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			09/02/12 14:10	1
Toluene	**1.75**		1.00		ug/L			09/02/12 14:10	1
Xylenes, Total	**8.34**		3.00		ug/L			09/02/12 14:10	1
Benzene	ND		1.00		ug/L			09/02/12 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*09/02/12 14:10*	*1*

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Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	**Client Sample ID**	**(50-150)**
490-4715-A-18-C MS	Matrix Spike	108
490-4715-A-18-C MSD	Matrix Spike Duplicate	111
490-4940-1	BF-1	97
490-4940-2	BF-2	101
490-4940-3	BF-3	95
490-4940-4	BF-4	94
490-4940-5	Disp.-4	97
490-4940-6	Disp.-3	95
490-4940-7	BF-5	96
490-4940-8	BF-6	93
490-4940-9	BF-7	102
490-4940-10	BF-8	93
490-4940-11	BF-9	98
490-4940-12	BF-10	94
490-4940-13	BF-11	97
490-4940-14	BF-12	96
490-4940-15	P-1	93
490-4940-16	P-2	90
490-4940-17	P-3	83
490-4940-18	P-4	75
490-4940-19	P-5	71
490-4940-20	Disp.-1	87
490-4940-21	Disp.-2	88
490-4940-22	TP-1	86
490-4940-23	TP-2	81
490-4940-24	TP-3	88
490-4940-25	DGW-1	79
490-5327-A-2-A MS	Matrix Spike	102
490-5327-A-2-A MSD	Matrix Spike Duplicate	99
LCS 490-16494/9	Lab Control Sample	117
LCS 490-17259/9	Lab Control Sample	93
LCSD 490-16494/10	Lab Control Sample Dup	119
LCSD 490-17259/10	Lab Control Sample Dup	115
MB 490-16494/14	Method Blank	90
MB 490-17259/13	Method Blank	93

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		TFT2
Lab Sample ID	**Client Sample ID**	**(50-150)**
490-4940-26	GW-1	89
LCS 490-17223/36	Lab Control Sample	106
LCSD 490-17223/37	Lab Control Sample Dup	103
MB 490-17223/6	Method Blank	90

Surrogate Legend

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Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

TFT = a,a,a-Trifluorotoluene

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	**Client Sample ID**	**(50-150)**
490-4940-1	BF-1	99
490-4940-2	BF-2	104
490-4940-3	BF-3	101
490-4940-4	BF-4	101
490-4940-5	Disp.-4	108
490-4940-6	Disp.-3	105
490-4940-7	BF-5	108
490-4940-8	BF-6	103
490-4940-9	BF-7	113
490-4940-10	BF-8	104
490-4940-11	BF-9	106
490-4940-12	BF-10	103
490-4940-13	BF-11	109
490-4940-14	BF-12	100
490-4940-15	P-1	106
490-4940-16	P-2	94
490-4940-17	P-3	93
490-4940-18	P-4	85
490-4940-19	P-5	83
490-4940-20	Disp.-1	101
490-4940-21	Disp.-2	88
490-4940-22	TP-1	86
490-4940-23	TP-2	84
490-4940-24	TP-3	91
490-4940-25	DGW-1	82
LCS 490-16496/7	Lab Control Sample	114
LCS 490-17260/7	Lab Control Sample	123
LCSD 490-16496/8	Lab Control Sample Dup	113
LCSD 490-17260/8	Lab Control Sample Dup	107
MB 490-16496/13	Method Blank	94
MB 490-16496/14	Method Blank	94
MB 490-17260/13	Method Blank	89
MB 490-17260/14	Method Blank	91

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		TFT1
Lab Sample ID	**Client Sample ID**	**(50-150)**
490-4940-26	GW-1	91
LCS 490-17226/34	Lab Control Sample	104
LCSD 490-17226/35	Lab Control Sample Dup	105
MB 490-17226/22	Method Blank	91

Surrogate Legend

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Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

TFT = a,a,a-Trifluorotoluene

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: 490-4715-A-18-C MS
Matrix: Solid
Analysis Batch: 16494

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	194		540	686.5		mg/Kg	☼	91	56 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*50 - 150*

Lab Sample ID: 490-4715-A-18-C MSD
Matrix: Solid
Analysis Batch: 16494

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	194		540	724.2		mg/Kg	☼	98	56 - 130	5	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*111*		*50 - 150*

Lab Sample ID: MB 490-16494/14
Matrix: Solid
Analysis Batch: 16494

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.100		mg/Kg			08/29/12 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*50 - 150*		*08/29/12 16:44*	*1*

Lab Sample ID: LCS 490-16494/9
Matrix: Solid
Analysis Batch: 16494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	10.0	9.498		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*50 - 150*

Lab Sample ID: LCSD 490-16494/10
Matrix: Solid
Analysis Batch: 16494

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	10.0	11.17		mg/Kg		112	70 - 130	16	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*119*		*50 - 150*

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 490-5327-A-2-A MS
Matrix: Solid
Analysis Batch: 17259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 16856

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	ND		866	674.7		mg/Kg	☼	77	56 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*50 - 150*

Lab Sample ID: 490-5327-A-2-A MSD
Matrix: Solid
Analysis Batch: 17259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 16856

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	ND		866	780.9		mg/Kg	☼	89	56 - 130	15	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*50 - 150*

Lab Sample ID: MB 490-17223/6
Matrix: Water
Analysis Batch: 17223

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		100		ug/L			09/01/12 22:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*50 - 150*		*09/01/12 22:43*	*1*

Lab Sample ID: LCS 490-17223/36
Matrix: Water
Analysis Batch: 17223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	1000	868.7		ug/L		87	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*106*		*50 - 150*

Lab Sample ID: LCSD 490-17223/37
Matrix: Water
Analysis Batch: 17223

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	1000	914.8		ug/L		91	30 - 150	5	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*50 - 150*

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 490-17259/13
Matrix: Solid
Analysis Batch: 17259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	ND		0.100		mg/Kg			09/03/12 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*09/03/12 14:33*	*1*

Lab Sample ID: LCS 490-17259/9
Matrix: Solid
Analysis Batch: 17259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C10	10.0	9.208		mg/Kg		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*93*		*50 - 150*

Lab Sample ID: LCSD 490-17259/10
Matrix: Solid
Analysis Batch: 17259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C6-C10	10.0	10.72		mg/Kg		107	70 - 130	15	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*115*		*50 - 150*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 490-16496/13
Matrix: Solid
Analysis Batch: 16496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00100		mg/Kg			08/29/12 16:24	1
Toluene	ND		0.00100		mg/Kg			08/29/12 16:24	1
Xylenes, Total	ND		0.00300		mg/Kg			08/29/12 16:24	1
Benzene	ND		0.00100		mg/Kg			08/29/12 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/29/12 16:24*	*1*

Lab Sample ID: MB 490-16496/14
Matrix: Solid
Analysis Batch: 16496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00100		mg/Kg			08/29/12 16:44	1
Toluene	ND		0.00100		mg/Kg			08/29/12 16:44	1
Xylenes, Total	ND		0.00300		mg/Kg			08/29/12 16:44	1

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 490-16496/14
Matrix: Solid
Analysis Batch: 16496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00100		mg/Kg			08/29/12 16:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/29/12 16:44*	*1*

Lab Sample ID: LCS 490-16496/7
Matrix: Solid
Analysis Batch: 16496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1064		mg/Kg		106	77 - 120
Toluene	0.100	0.1042		mg/Kg		104	79 - 120
Benzene	0.100	0.09824		mg/Kg		98	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*114*		*50 - 150*

Lab Sample ID: LCSD 490-16496/8
Matrix: Solid
Analysis Batch: 16496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1062		mg/Kg		106	77 - 120	0	49
Toluene	0.100	0.1036		mg/Kg		104	79 - 120	1	37
Benzene	0.100	0.09675		mg/Kg		97	76 - 120	2	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*113*		*50 - 150*

Lab Sample ID: MB 490-17226/22
Matrix: Water
Analysis Batch: 17226

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			09/02/12 11:44	1
Toluene	ND		1.00		ug/L			09/02/12 11:44	1
Xylenes, Total	ND		3.00		ug/L			09/02/12 11:44	1
Benzene	ND		1.00		ug/L			09/02/12 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*09/02/12 11:44*	*1*

Lab Sample ID: LCS 490-17226/34
Matrix: Water
Analysis Batch: 17226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	100	95.23		ug/L		95	70 - 130
Toluene	100	89.98		ug/L		90	66 - 127

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 490-17226/34
Matrix: Water
Analysis Batch: 17226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	88.52		ug/L		89	69 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*50 - 150*

Lab Sample ID: LCSD 490-17226/35
Matrix: Water
Analysis Batch: 17226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	100	94.76		ug/L		95	70 - 130	0	35
Toluene	100	89.93		ug/L		90	66 - 127	0	34
Benzene	100	87.76		ug/L		88	69 - 129	1	33

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*50 - 150*

Lab Sample ID: MB 490-17260/13
Matrix: Solid
Analysis Batch: 17260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00100		mg/Kg			09/03/12 14:33	1
Toluene	ND		0.00100		mg/Kg			09/03/12 14:33	1
Xylenes, Total	ND		0.00300		mg/Kg			09/03/12 14:33	1
Benzene	ND		0.00100		mg/Kg			09/03/12 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/03/12 14:33*	*1*

Lab Sample ID: MB 490-17260/14
Matrix: Solid
Analysis Batch: 17260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00100		mg/Kg			09/03/12 14:55	1
Toluene	ND		0.00100		mg/Kg			09/03/12 14:55	1
Xylenes, Total	ND		0.00300		mg/Kg			09/03/12 14:55	1
Benzene	ND		0.00100		mg/Kg			09/03/12 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*09/03/12 14:55*	*1*

Lab Sample ID: LCS 490-17260/7
Matrix: Solid
Analysis Batch: 17260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1076		mg/Kg		108	77 - 120

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QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 490-17260/7
Matrix: Solid
Analysis Batch: 17260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.1053		mg/Kg		105	79 - 120
Benzene	0.100	0.09937		mg/Kg		99	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*123*		*50 - 150*

Lab Sample ID: LCSD 490-17260/8
Matrix: Solid
Analysis Batch: 17260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	0.100	0.1062		mg/Kg		106	77 - 120	1	49
Toluene	0.100	0.1039		mg/Kg		104	79 - 120	1	37
Benzene	0.100	0.09878		mg/Kg		99	76 - 120	1	27

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*107*		*50 - 150*

Method: Moisture - Percent Moisture

Lab Sample ID: 500-49488-A-1 DU
Matrix: Solid
Analysis Batch: 15129

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.5		9.2		%		7	20
Percent Solids	91		91		%		0.7	20

Lab Sample ID: 490-4940-1 DU
Matrix: Solid
Analysis Batch: 15244

Client Sample ID: BF-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.6		2.4	F	%		37	20
Percent Solids	98		98		%		0.7	20

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

GC VOA

Prep Batch: 15868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-1	BF-1	Total/NA	Solid	5030B	
490-4940-2	BF-2	Total/NA	Solid	5030B	
490-4940-3	BF-3	Total/NA	Solid	5030B	
490-4940-4	BF-4	Total/NA	Solid	5030B	
490-4940-5	Disp.-4	Total/NA	Solid	5030B	
490-4940-6	Disp.-3	Total/NA	Solid	5030B	
490-4940-7	BF-5	Total/NA	Solid	5030B	
490-4940-8	BF-6	Total/NA	Solid	5030B	
490-4940-9	BF-7	Total/NA	Solid	5030B	
490-4940-10	BF-8	Total/NA	Solid	5030B	
490-4940-11	BF-9	Total/NA	Solid	5030B	
490-4940-12	BF-10	Total/NA	Solid	5030B	
490-4940-13	BF-11	Total/NA	Solid	5030B	
490-4940-14	BF-12	Total/NA	Solid	5030B	
490-4940-15	P-1	Total/NA	Solid	5030B	
490-4940-16	P-2	Total/NA	Solid	5030B	
490-4940-17	P-3	Total/NA	Solid	5030B	
490-4940-18	P-4	Total/NA	Solid	5030B	
490-4940-19	P-5	Total/NA	Solid	5030B	
490-4940-20	Disp.-1	Total/NA	Solid	5030B	
490-4940-21	Disp.-2	Total/NA	Solid	5030B	

Prep Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-22	TP-1	Total/NA	Solid	5030B	
490-4940-23	TP-2	Total/NA	Solid	5030B	
490-4940-24	TP-3	Total/NA	Solid	5030B	
490-4940-25	DGW-1	Total/NA	Solid	5030B	

Prep Batch: 16416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4715-A-18-C MS	Matrix Spike	Total/NA	Solid	5030B	
490-4715-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 16494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4715-A-18-C MS	Matrix Spike	Total/NA	Solid	8015B	16416
490-4715-A-18-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	16416
490-4940-1	BF-1	Total/NA	Solid	8015B	15868
490-4940-2	BF-2	Total/NA	Solid	8015B	15868
490-4940-3	BF-3	Total/NA	Solid	8015B	15868
490-4940-4	BF-4	Total/NA	Solid	8015B	15868
490-4940-5	Disp.-4	Total/NA	Solid	8015B	15868
490-4940-6	Disp.-3	Total/NA	Solid	8015B	15868
490-4940-7	BF-5	Total/NA	Solid	8015B	15868
490-4940-8	BF-6	Total/NA	Solid	8015B	15868
490-4940-9	BF-7	Total/NA	Solid	8015B	15868
490-4940-10	BF-8	Total/NA	Solid	8015B	15868
490-4940-11	BF-9	Total/NA	Solid	8015B	15868
490-4940-12	BF-10	Total/NA	Solid	8015B	15868
490-4940-13	BF-11	Total/NA	Solid	8015B	15868
490-4940-14	BF-12	Total/NA	Solid	8015B	15868

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

GC VOA (Continued)

Analysis Batch: 16494 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-15	P-1	Total/NA	Solid	8015B	15868
490-4940-16	P-2	Total/NA	Solid	8015B	15868
490-4940-17	P-3	Total/NA	Solid	8015B	15868
490-4940-18	P-4	Total/NA	Solid	8015B	15868
490-4940-19	P-5	Total/NA	Solid	8015B	15868
490-4940-20	Disp.-1	Total/NA	Solid	8015B	15868
LCS 490-16494/9	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 490-16494/10	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 490-16494/14	Method Blank	Total/NA	Solid	8015B	

Analysis Batch: 16496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-1	BF-1	Total/NA	Solid	8021B	15868
490-4940-2	BF-2	Total/NA	Solid	8021B	15868
490-4940-3	BF-3	Total/NA	Solid	8021B	15868
490-4940-4	BF-4	Total/NA	Solid	8021B	15868
490-4940-5	Disp.-4	Total/NA	Solid	8021B	15868
490-4940-6	Disp.-3	Total/NA	Solid	8021B	15868
490-4940-7	BF-5	Total/NA	Solid	8021B	15868
490-4940-8	BF-6	Total/NA	Solid	8021B	15868
490-4940-9	BF-7	Total/NA	Solid	8021B	15868
490-4940-10	BF-8	Total/NA	Solid	8021B	15868
490-4940-11	BF-9	Total/NA	Solid	8021B	15868
490-4940-12	BF-10	Total/NA	Solid	8021B	15868
490-4940-13	BF-11	Total/NA	Solid	8021B	15868
490-4940-14	BF-12	Total/NA	Solid	8021B	15868
490-4940-15	P-1	Total/NA	Solid	8021B	15868
490-4940-16	P-2	Total/NA	Solid	8021B	15868
490-4940-17	P-3	Total/NA	Solid	8021B	15868
490-4940-18	P-4	Total/NA	Solid	8021B	15868
490-4940-19	P-5	Total/NA	Solid	8021B	15868
490-4940-20	Disp.-1	Total/NA	Solid	8021B	15868
LCS 490-16496/7	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 490-16496/8	Lab Control Sample Dup	Total/NA	Solid	8021B	
MB 490-16496/13	Method Blank	Total/NA	Solid	8021B	
MB 490-16496/14	Method Blank	Total/NA	Solid	8021B	

Prep Batch: 16856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-5327-A-2-A MS	Matrix Spike	Total/NA	Solid	5030B	
490-5327-A-2-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 17223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-26	GW-1	Total/NA	Water	8015B	
LCS 490-17223/36	Lab Control Sample	Total/NA	Water	8015B	
LCSD 490-17223/37	Lab Control Sample Dup	Total/NA	Water	8015B	
MB 490-17223/6	Method Blank	Total/NA	Water	8015B	

Analysis Batch: 17226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-26	GW-1	Total/NA	Water	8021B	

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

GC VOA (Continued)

Analysis Batch: 17226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-17226/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-17226/35	Lab Control Sample Dup	Total/NA	Water	8021B	
MB 490-17226/22	Method Blank	Total/NA	Water	8021B	

Analysis Batch: 17259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-21	Disp.-2	Total/NA	Solid	8015B	15868
490-4940-22	TP-1	Total/NA	Solid	8015B	16096
490-4940-23	TP-2	Total/NA	Solid	8015B	16096
490-4940-24	TP-3	Total/NA	Solid	8015B	16096
490-4940-25	DGW-1	Total/NA	Solid	8015B	16096
490-5327-A-2-A MS	Matrix Spike	Total/NA	Solid	8015B	16856
490-5327-A-2-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	16856
LCS 490-17259/9	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 490-17259/10	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 490-17259/13	Method Blank	Total/NA	Solid	8015B	

Analysis Batch: 17260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-21	Disp.-2	Total/NA	Solid	8021B	15868
490-4940-22	TP-1	Total/NA	Solid	8021B	16096
490-4940-23	TP-2	Total/NA	Solid	8021B	16096
490-4940-24	TP-3	Total/NA	Solid	8021B	16096
490-4940-25	DGW-1	Total/NA	Solid	8021B	16096
LCS 490-17260/7	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 490-17260/8	Lab Control Sample Dup	Total/NA	Solid	8021B	
MB 490-17260/13	Method Blank	Total/NA	Solid	8021B	
MB 490-17260/14	Method Blank	Total/NA	Solid	8021B	

General Chemistry

Analysis Batch: 15129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-21	Disp.-2	Total/NA	Solid	Moisture	
490-4940-22	TP-1	Total/NA	Solid	Moisture	
490-4940-23	TP-2	Total/NA	Solid	Moisture	
490-4940-24	TP-3	Total/NA	Solid	Moisture	
490-4940-25	DGW-1	Total/NA	Solid	Moisture	
500-49488-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 15244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-1	BF-1	Total/NA	Solid	Moisture	
490-4940-1 DU	BF-1	Total/NA	Solid	Moisture	
490-4940-2	BF-2	Total/NA	Solid	Moisture	
490-4940-3	BF-3	Total/NA	Solid	Moisture	
490-4940-4	BF-4	Total/NA	Solid	Moisture	
490-4940-5	Disp.-4	Total/NA	Solid	Moisture	
490-4940-6	Disp.-3	Total/NA	Solid	Moisture	
490-4940-7	BF-5	Total/NA	Solid	Moisture	
490-4940-8	BF-6	Total/NA	Solid	Moisture	
490-4940-9	BF-7	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

General Chemistry (Continued)

Analysis Batch: 15244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-4940-10	BF-8	Total/NA	Solid	Moisture	
490-4940-11	BF-9	Total/NA	Solid	Moisture	
490-4940-12	BF-10	Total/NA	Solid	Moisture	
490-4940-13	BF-11	Total/NA	Solid	Moisture	
490-4940-14	BF-12	Total/NA	Solid	Moisture	
490-4940-15	P-1	Total/NA	Solid	Moisture	
490-4940-16	P-2	Total/NA	Solid	Moisture	
490-4940-17	P-3	Total/NA	Solid	Moisture	
490-4940-18	P-4	Total/NA	Solid	Moisture	
490-4940-19	P-5	Total/NA	Solid	Moisture	
490-4940-20	Disp.-1	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-1

Date Collected: 08/22/12 07:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-1
Matrix: Solid
Percent Solids: 98.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 17:50	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 17:50	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-2

Date Collected: 08/22/12 07:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-2
Matrix: Solid
Percent Solids: 97.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 18:10	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 18:10	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-3

Date Collected: 08/22/12 08:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-3
Matrix: Solid
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 18:31	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 18:31	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-4

Date Collected: 08/22/12 08:10
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-4
Matrix: Solid
Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 18:51	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 18:51	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: Disp.-4

Date Collected: 08/22/12 08:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-5
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 19:13	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 19:13	BH	TAL NSH

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: Disp.-4

Date Collected: 08/22/12 08:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: Disp.-3

Date Collected: 08/22/12 08:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-6
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 19:32	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 19:32	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-5

Date Collected: 08/22/12 09:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-7
Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 19:54	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 19:54	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-6

Date Collected: 08/22/12 09:10
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-8
Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 20:13	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 20:13	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-7

Date Collected: 08/22/12 19:35
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-9
Matrix: Solid
Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 20:35	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 20:35	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-8

Lab Sample ID: 490-4940-10

Date Collected: 08/22/12 19:40
Date Received: 08/24/12 08:20

Matrix: Solid
Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 20:55	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 20:55	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-9

Lab Sample ID: 490-4940-11

Date Collected: 08/22/12 00:01
Date Received: 08/24/12 08:20

Matrix: Solid
Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 21:16	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 21:16	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-10

Lab Sample ID: 490-4940-12

Date Collected: 08/22/12 19:50
Date Received: 08/24/12 08:20

Matrix: Solid
Percent Solids: 98.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 21:36	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 21:36	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-11

Lab Sample ID: 490-4940-13

Date Collected: 08/22/12 19:55
Date Received: 08/24/12 08:20

Matrix: Solid
Percent Solids: 96.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 21:57	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 21:57	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: BF-12

Lab Sample ID: 490-4940-14

Date Collected: 08/22/12 20:00
Date Received: 08/24/12 08:20

Matrix: Solid
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 22:17	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 22:17	BH	TAL NSH

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: BF-12

Date Collected: 08/22/12 20:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: P-1

Date Collected: 08/22/12 16:55
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-15
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 22:38	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 22:38	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: P-2

Date Collected: 08/22/12 17:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-16
Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 22:58	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 22:58	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: P-3

Date Collected: 08/22/12 17:10
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-17
Matrix: Solid
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 23:19	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 23:19	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: P-4

Date Collected: 08/22/12 17:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-18
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/29/12 23:39	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/29/12 23:39	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: P-5

Date Collected: 08/22/12 17:40
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-19
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/30/12 00:01	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/30/12 00:01	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: Disp.-1

Date Collected: 08/22/12 16:45
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-20
Matrix: Solid
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	16494	08/30/12 00:20	BH	TAL NSH
Total/NA	Analysis	8021B		1	16496	08/30/12 00:20	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15244	08/24/12 17:08	RS	TAL NSH

Client Sample ID: Disp.-2

Date Collected: 08/22/12 17:20
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-21
Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			15868	08/28/12 09:59	ML	TAL NSH
Total/NA	Analysis	8015B		1	17259	09/03/12 16:37	BH	TAL NSH
Total/NA	Analysis	8021B		1	17260	09/03/12 16:37	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15129	08/24/12 17:24	RS	TAL NSH

Client Sample ID: TP-1

Date Collected: 08/22/12 19:15
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-22
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			16096	08/28/12 18:45	TP	TAL NSH
Total/NA	Analysis	8015B		1	17259	09/03/12 16:59	BH	TAL NSH
Total/NA	Analysis	8021B		1	17260	09/03/12 16:59	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15129	08/24/12 17:24	RS	TAL NSH

Client Sample ID: TP-2

Date Collected: 08/22/12 19:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-23
Matrix: Solid
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			16096	08/28/12 18:45	TP	TAL NSH
Total/NA	Analysis	8015B		1	17259	09/03/12 17:19	BH	TAL NSH
Total/NA	Analysis	8021B		1	17260	09/03/12 17:19	BH	TAL NSH

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Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Client Sample ID: TP-2

Date Collected: 08/22/12 19:00
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	15129	08/24/12 17:24	RS	TAL NSH

Client Sample ID: TP-3

Date Collected: 08/22/12 18:30
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-24
Matrix: Solid
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			16096	08/28/12 18:45	TP	TAL NSH
Total/NA	Analysis	8015B		1	17259	09/03/12 17:40	BH	TAL NSH
Total/NA	Analysis	8021B		1	17260	09/03/12 17:40	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15129	08/24/12 17:24	RS	TAL NSH

Client Sample ID: DGW-1

Date Collected: 08/22/12 19:25
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-25
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			16096	08/28/12 18:45	TP	TAL NSH
Total/NA	Analysis	8015B		1	17259	09/03/12 18:00	BH	TAL NSH
Total/NA	Analysis	8021B		1	17260	09/03/12 18:00	BH	TAL NSH
Total/NA	Analysis	Moisture		1	15129	08/24/12 17:24	RS	TAL NSH

Client Sample ID: GW-1

Date Collected: 08/22/12 11:50
Date Received: 08/24/12 08:20

Lab Sample ID: 490-4940-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	17223	09/02/12 14:10	AC	TAL NSH
Total/NA	Analysis	8021B		1	17226	09/02/12 14:10	AC	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-12
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAC	9	1168CA	10-31-12
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAC	4	E87358	06-30-13
Illinois	NELAC	5	200010	12-09-12
Iowa	State Program	7	131	05-01-14
Kansas	NELAC	7	E-10229	10-31-12
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAC	6	LA110014	12-31-12
Louisiana	NELAC	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAC	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	09-30-12
New Hampshire	NELAC	1	2963	10-09-12
New Jersey	NELAC	2	TN965	06-30-13
New York	NELAC	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oregon	NELAC	10	TN200001	04-30-13
Pennsylvania	NELAC	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAC	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAC	8	TAN	06-30-13
Virginia	NELAC	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

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Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL NSH
8021B	Volatile Organic Compounds (GC)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

IMAGED 10/11/2012

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: OKQT-9 Tank Pull

TestAmerica Job ID: 490-4940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-4940-1	BF-1	Solid	08/22/12 07:30	08/24/12 08:20
490-4940-2	BF-2	Solid	08/22/12 07:50	08/24/12 08:20
490-4940-3	BF-3	Solid	08/22/12 08:00	08/24/12 08:20
490-4940-4	BF-4	Solid	08/22/12 08:10	08/24/12 08:20
490-4940-5	Disp.-4	Solid	08/22/12 08:30	08/24/12 08:20
490-4940-6	Disp.-3	Solid	08/22/12 08:50	08/24/12 08:20
490-4940-7	BF-5	Solid	08/22/12 09:00	08/24/12 08:20
490-4940-8	BF-6	Solid	08/22/12 09:10	08/24/12 08:20
490-4940-9	BF-7	Solid	08/22/12 19:35	08/24/12 08:20
490-4940-10	BF-8	Solid	08/22/12 19:40	08/24/12 08:20
490-4940-11	BF-9	Solid	08/22/12 00:01	08/24/12 08:20
490-4940-12	BF-10	Solid	08/22/12 19:50	08/24/12 08:20
490-4940-13	BF-11	Solid	08/22/12 19:55	08/24/12 08:20
490-4940-14	BF-12	Solid	08/22/12 20:00	08/24/12 08:20
490-4940-15	P-1	Solid	08/22/12 16:55	08/24/12 08:20
490-4940-16	P-2	Solid	08/22/12 17:00	08/24/12 08:20
490-4940-17	P-3	Solid	08/22/12 17:10	08/24/12 08:20
490-4940-18	P-4	Solid	08/22/12 17:30	08/24/12 08:20
490-4940-19	P-5	Solid	08/22/12 17:40	08/24/12 08:20
490-4940-20	Disp.-1	Solid	08/22/12 16:45	08/24/12 08:20
490-4940-21	Disp.-2	Solid	08/22/12 17:20	08/24/12 08:20
490-4940-22	TP-1	Solid	08/22/12 19:15	08/24/12 08:20
490-4940-23	TP-2	Solid	08/22/12 19:00	08/24/12 08:20
490-4940-24	TP-3	Solid	08/22/12 18:30	08/24/12 08:20
490-4940-25	DGW-1	Solid	08/22/12 19:25	08/24/12 08:20
490-4940-26	GW-1	Water	08/22/12 11:50	08/24/12 08:20

IMAGED 10/11/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-4940 Chain of

Cooler Received/Opened On 8/24/2012 @ 0820

1. Tracking # 2803 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 14740456

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ET

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) PM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) M

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) M

I certify that I attached a label with the unique LIMS number to each container (intial) M

21. Were there Non-Conformance Issues at login? YES...NO Was a PIPE generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

IMAGED 10/11/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Loc: 490
4940

Cooler Received/Opened On 8/24/2012 @ 8:20

1. Tracking # 2814 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 17960357

2. Temperature of rep. sample or temp blank when opened: 0.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO...# _____

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

1 of 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/10/2012

Client Information	Sampler: Vernon Ashworth	Lab PM: Fitzwater, Ryan	Carrier Tracking No(s):	COC No: 490-2710-1091.1
Client Contact: Ms. Julie Czech	Phone: (918) 828-2424	E-Mail: ryan.fitzwater@testamericainc.com		Page: Page 1 of 5
Company: Conestoga-Rovers & Associates, Inc.				Job #: CAA-079310
Address: 11002 East 51st Street	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Tulsa	TAT Requested (days): Standard	Loc: 490 4940		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: OK, 74146	PO #: Purchase Order Requested			Other:
Phone: 773-380-9933(Tel) 773-380-6421(Fax)	WO #:			
Email: jczech@craworld.com	Project #: 49002201			
Project Name: QT-9 Tank Pull	SSOW#:			
Site:				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX Volatiles	Moisture - Percent Moisture/Solids	8021B - 8015/8021 [illegible]/GRO	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N	A		
1	BF-1	08/22/12	0730	C	Solid			X	X	X		
2	BF-2		0750	C	Solid							
3	BF-3		0800	C	Solid							
4	BF-4		0810	C	Solid							
5	Disp.-4		0830	G	Solid							
6	Disp.-3		0850	G	Solid							
7	BF-5		0900	C	Solid							
8	BF-6		0910	C	Solid							
9	BF-7		1935	C	Solid							
10	BF-8		1940	C	Solid							
11	BF-9			C	Solid							

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/23/12 1355	CRA	[signature] ITAN	8/24/12 0820	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

IMAGED 10/11/2012

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/10/2012

Client Information	Sampler: Vernon Ashworth	Lab PM: Fitzwater, Ryan	Carrier Tracking No(s):	COC No: 490-2710-1091.2
Client Contact: Ms. Julie Czech	Phone: (918) 828-2424	E-Mail: ryan.fitzwater@testamericainc.com		Page: Page 2 of 5
Company: Conestoga-Rovers & Associates, Inc.				Job #: CRA # 079310
Address: 11002 East 51st Street	Due Date Requested:			
City: Tulsa	TAT Requested (days): Standard			
State, Zip: OK, 74146				
Phone: 773-380-9933(Tel) 773-380-6421(Fax)	PO #: Purchase Order Requested			
Email: jczech@craworld.com	WO #:			
Project Name: QT-9 Tank Pull	Project #: 49002201			
Site:	SSOW#:			

Analysis Requested

Loc: 490
4940

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	8021B - BTEX Volatiles	Moisture - Percent Moisture/Solids	8021B - 8015/8021 - GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N	N	A		
BF-10	08/22/12	1950	C	Solid		X	X	X		
BF-11		1955	C	Solid						
BF-12		2000	C	Solid						
P-1		1655	G	Solid						
P-2		1700	G	Solid						
P-3		1710	G	Solid						
P-4		1730	G	Solid						
P-5		1740	G	Solid						
Disp.-1		1645	G	Solid						
Disp.-2		1720	G	Solid						
				Solid						

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/23/12 1355	CRA		8/24/12	0820
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

IMAGED 10/11/2012

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-0954

Chain of Custody Record

3 of 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/10/2012

Client Information	Sampler: Vernon Ashworth	Lab PM: Fitzwater, Ryan	Carrier Tracking No(s):	COC No: 490-2710-1091.3
Client Contact: Ms. Julie Czech	Phone: (918) 828-2424	E-Mail: ryan.fitzwater@testamericainc.com		Page: Page 3 of 5
Company: Conestoga-Rovers & Associates, Inc.		Analysis Requested		Job #: CRA # 079310
Address: 11004 East 51st Street	Due Date Requested:			Preservation Codes:
City: Tulsa	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: OK, 74146				
Phone: 773-380-9933(Tel) 773-380-6421(Fax)	PO #: Purchase Order Requested			Other:
Email: jczech@craworld.com	WO #:			
Project Name: QT-9 Tank Pull	Project #: 49002201			
Site:	SSOW#:			

Loc: 490
4940

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B - BTEX Volatiles	Moisture - Percent Moisture/Solids	8021B - 8015/8021 [redacted]/GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A		
24 TP-1	8/22/12	1915	G	Solid			X	X	X		
23 TP-2		1900	G	Solid							
22 TP-3		1830	G	Solid							
25 DGW-1		1945	G	Solid							
26 GW-1	↓	1150	G	Water			↓	↓	↓		
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	8/23/12 1355	CRA	[signature] ISAW	8/24/12	0830
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

IMAGED 10/11/2012

IMAGED 10/11/2012

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-4940-1

Login Number: 4940

List Number: 1

Creator: Buckingham, Paul

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

IMAGED 10/11/2012

CERTIFICATE OF DESTRUCTION

DATE: *September 10, 2012*

SCRAPPING/DISPOSAL COMPANY:

Waste Management Quarry Landfill
13720 E. 46th St.
North Tulsa, OK. 74116

SITE OF DESTRUCTION:

QuikTrip
4916 S. Union
Tulsa, OK.

TANK REMOVAL CONTRACTOR:

Morris Excavating, Co., Inc.
10566 Woodland Trail
Council Bluffs, IA 51503

TANK IDENTIFICATION:

TANK NO. *#1 #2 #3*
SIZE: *12,00 12000 12,000 gallon fiberglass UST's*

LOCATION: COMPANY NAME: *QuikTrip*
ADDRESS: *4916 S. Union*
CITY/STATE: *Tulsa, OK.*

DATE OF DESTRUCTION: *8/24/2012*

I certify that the above described tank has been rendered unusable for the storage of any fluids and the tank has been cleaned and disposed of in accordance with all applicable local, state, and federal regulations.

By: Morris Excavating Co., Inc.

Joe Morris
President

IMAGED 10/11/2012

Backfill Worksheet

DATE:	August 20, 2012				Done by
Case #					
Facility File #			Facility # 7206116		
Site Name			QuikTrip Store # 9C		
Street Address			4966 S. Union		
City			Tulsa		
PIT	Length	Width	Depth		Volume of Pit
Tank Pit #1	41	38	11		635
	Tank #1	Tank #2	Tank #3	Tank #4	Total Volume of Tanks
Volume of Tanks	12,000	12,000	12,000		178
In Gallons			**Volume of soil = Pit volume less tank volume**		456
PIT	Length	Width	Depth		Volume of Pit
Tank Pit #2					0
	Tank #1	Tank #2	Tank #3	Tank #4	Total Volume of Tanks
Volume of Tanks					0
In Gallons			**Volume of soil = Pit volume less tank volume**		0

Repeat as necessary for the number of pits and tanks

Total amount of soil to be removed from tank pits #1,#2,#3,				456
	Total length of Trenches	Width	Depth	Volume of Trenches
Product Lines	70	2	2	10
Total amount of soil to be removed from Pits and Trenches				467

Volume of soil to be returned: If different from amount hauled off attach explanation.

Costs per yard/ton to dispose of soil including loading, mileage and landfill charges. Set out details on an attached sheet.

Costs per yard/ton to return soil including loading, mileage and any other charges. Set out details on an attached sheet.

Total sampling costs: Number of samples X costs per sample	
Costs for professional time: See NOTE #1	
Total costs for above activities	0

NOTE 1: Only a minimal amount of time will be allowed for professional time. The consultant is already at the site for the tank pull. Attach break down of hours.

NOTE 2: Soil returned should equal soil removed. Volume of tanks will not be returned. If new tanks are being returned to a pit, the volume of soil removed from that pit will not be reimbursed as that is a regular business expense.

NOTE #3: For any exceptions attach a written explanation. If any local, state, or federal agency or a landfill has special requirements, furnish the name, phone number, and contact person in that agency.

American Waste Control, Inc.

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: Morris Excavation Co

Address: [illegible] Trail

[illegible] 51503

Phone No. [illegible]

Shipping Location: [illegible]

Address: [illegible]

Phone No. [illegible]

I.D. Lab Number	Description of Waste	Quantity	Units	No.	Type
	[illegible] Rinse [illegible] transport				

Codes
D - Drum
C - Carton
B - Bag
T - Truck
P - Pounds
Y - Yards
O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 26D. 10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Morris Excavation

Generator Authorized Agent Name: [illegible]

Signature: [illegible]

Shipment Date: [illegible]

TRANSPORTER

Transporter Name: [illegible]

Address: [illegible]

Driver Name (Print): [illegible]

Vehicle License No./State: [illegible]

Vehicle Certification: [illegible]

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature: [illegible]

Shipment Date: 082412

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature: [illegible]

Delivery Date: [illegible]

DESTINATION

Site Name: American Environmental Landfill

Address: 212 N. 177th W. Ave.
Sand Springs, OK 74063
Permit #3557021

Phone No. [illegible]

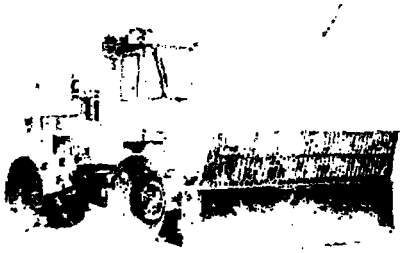
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is accurate.

Name of Authorized Agent: [illegible]

Signature: [illegible]

Receipt Date: [illegible]

ORIGINAL - Destination Retain
COPY2 - Return to Generator
COPY3 - Transporter Retain
COPY4 - Generator Retain



DEQ Request for Information Form
SARA Title III

Name: Cassie Schmidt

Address: 2049 E. Joyce Blvd, Ste 400

City/State/Zip: Fayetteville, AR

I, Cassie Schmidt ,request the following information.

Description of request Information from the last 2-5 years concerning TIERII status for the Pepsi Bottling Group located at 510 W Skelly Drive, Tulsa, OK.

Purpose of request To obtain information regarding the possibility of sub-surface contamination on the site.

Signature

Date

CONFIDENTIALITY NOTICE:

The Oklahoma Department of Environmental Quality ("DEQ") is providing the accompanying electronically stored information ("ESI") pursuant to the Oklahoma Open Records Act, 51 O.S. §24A.1 *et seq*. If you receive ESI that the DEQ is allowed or required to keep confidential, or is otherwise not subject to the Oklahoma Open Records Act, the disclosure thereof by the DEQ was inadvertent and unintentional and the DEQ and/or the party creating the ESI has not waived the claim of confidentiality or privilege.

Confidential and privileged information includes but is not limited to trade secrets, records protected by a state evidentiary privilege, attorney work product, attorney client privilege, joint defense, joint confidentiality, and/or attorney settlement negotiations. If you received information marked confidential or privileged, or if for any other reason you are aware or believe that a claim of confidentiality or privilege has been made or may be applicable, DO NOT READ THE ESI; DO NOT USE, DISCLOSE, OR FORWARD THE ESI; promptly sequester, destroy or return the ESI and notify:

Sarah Penn, Deputy General Counsel
Office of the General Counsel
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
Office: (405) 702-7100
Fax: (405) 702-7199.

See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051569

Section II. Facility Operator Information

Name: PEPSI BEVERAGES Company) 918-445-8066

Address: 510 W. Skelly Dr

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Pepsi Beverages Company Phone: 918-445-8066

Address: 510 W. Skelly Drive

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 36.08810000 Longitude: 95.99720000

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Michael Valencia Date: 7/7/15

Signature: Title: Foreman

8-4-15

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 2014.

✓ How many routine facility inspections did you perform during the reporting period? 12

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
None			

✓ What must you do to correct the deficiencies that remain uncorrected?
N/A

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes ✓ No____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ____ No____ All BMPs were being implemented ✓

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ____ No____ No deficiencies noted in any inspection ✓

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ____ No____ All BMPs were effective ✓

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No____ All BMPs were being effective ✓

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ____ No ✓

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ____ No ✓

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No____ Permit applied for ____ No known illicit discharges ✓

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ____ No ✓

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ____ No ✓ No Spills

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ____ No____ No spills or leaks occurred ✓

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ____ No____ No spills or leaks occurred ✓

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes ✓ No____ Number of Visual Monitoring 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ____ No ✓

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified)

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ____ No ✓

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes ____ No ✓

See Page 4 for Instructions

DEQ FORM 605-006

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR05 51569

Section II. Facility Operator Information

Name: NATHAN MULHERN Phone: 918-445-8011

Address: 510 WEST SKELLY DRIVE

City: TULSA County: TULSA Zip Code: 74107

Section III. Facility Location

Name: PEPSI BOTTLING GROUP Phone: 918-445-8011

Address: 510 WEST SKELLY DRIVE

City: TULSA County: TULSA Zip Code: 74107

Latitude: N36 05 17 Longitude: W95 59 50

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: NATHAN MULHERN Date: 4/20/09

Signature: [signature] Title: PRODUCTION MANAGER

RECEIVED
APR 20 2009
DEQ ECLS

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred X

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes X No_____ No spills or leaks occurred_____

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 12

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ___ No X

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
(5) N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6) N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No X

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: 2008

✓ How many routine facility inspections did you perform during the reporting period? 12

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected

✓ What must you do to correct the deficiencies that remain uncorrected?

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes X No

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ____ No____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ____ No____ No deficiencies noted in any inspection X

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ____ No____ All BMPs were effective X

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No____ All BMPs were being effective X

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No____ Permit applied for ____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ____ No X

IMAGED FEB 19 2010 DEQ CENTRAL RECORDS

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051569

Section II. Facility Operator Information

Name: NATHAN MULHERN Phone: 918-445-8011

Address: 510 WEST SKELLY DRIVE

City: TULSA County: TULSA Zip Code: 74107

Section III. Facility Location

Name: PEPSI BOTTLING GROUP Phone: 918-445-8011

Address: 510 WEST SKELLY DRIVE

City: TULSA County: TULSA Zip Code: 74107

Latitude: N36 05 17 Longitude: W95 59 50

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: NATHAN MULHERN Date: 2/11/10

Signature: [signature] Title: PRODUCTION MANAGER

FEB 11 2010

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2009

✓ How many routine facility inspections did you perform during the reporting period? 12

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected

✓ What must you do to correct the deficiencies that remain uncorrected?

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ✓ No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes _____ No_____ All BMPs were being implemented ✓

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No_____ No deficiencies noted in any inspection ✓

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No_____ All BMPs were effective ✓

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No_____ All BMPs were being effective ✓

✓ At any time during the reporting period did you discover any illicit discharges from your facility?
Yes _____ No ✓

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges ✓

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No ✓

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No ✓

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred ✓

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ✓ No_____ No spills or leaks occurred_____

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 12

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No ✓

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
(5) N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant sources.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6) N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No ✓

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
–	–	–	–

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

June 15, 2012

KEVIN KELSEY
PEPSI BEVERAGES COMPANY
510 WEST SKELLY DR
TULSA, OK 74107

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number: OKR051569

Dear Mr. Kelsey:

The new Notice of Intent (NOI) for the facility listed below was received on September 29, 2011 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in Tulsa County.

Facility:
PEPSI BEVERAGES COMPANY
510 WEST SKELLY DR
TULSA, OK 74107

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2012 will be invoiced for the full permit year (July 1, 2012 - June 30, 2013).

If you have any questions regarding this permit or the Storm Water Program, please call Amber McIntyre of the Environmental Complaints and Local Services Division at (405)702-6167.

Sincerely,

Amber McIntyre
Environmental Program Specialist
Environmental Complaints and Local Services

Enclosures

c: Tulsa DEQ Office

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. **OKR051569**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Pepsi Beverages Company

510 West Skelly Dr

Tulsa, OK 74107

Is authorized to discharge storm water from an industrial site located in Tulsa County at

Pepsi Beverages Company

510 West Skelly Dr

Tulsa, OK 74107

The receiving body of water is Mosser Creek.

This facility discharges into a 303(d) listed stream.

This facility discharges into an Aquatic Resource of Concern.

The OPDES requires permittees to have a Storm Water Pollution Plan (SWP3) which includes a description of appropriate control measures. These are applicable to your industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.
The Authorization shall become effective **December 23, 2011** and will expire at midnight September 4, 2016.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on September 5, 2011, shall apply to the recipient of this authorization.

Mark Derichsweiler, P.E., Engineering Manager
Watershed Planning and Storm Water Permitting
Water Quality Division

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mailing Address:
Department of Environmental Quality
Administrative Services - Accounts Receivable
P O Box 2036
Oklahoma City, OK 73101
405-702-0100

REFUND

Date: 12/27/2012

To: Administrative Services

From: ECLS
SARAH LESSIG
(405)702- 1081

Refund amount: $340.56

Refund to: PEPSI BEVERAGES CO
510 WEST SKELLY
TULSA, OK 74107

Reason for refund:
Return of tendered fee OKRD51569
DUPLICATE OF INVOICE 55181199

DEPT OF ENV QUALITY
707 NORTH ROBINSON
OKLAHOMA CITY OK 73102
405-702-7123

TERMINAL ID : 79834379
MERCHANT #: 430134570191020
MASTERCARD SRV : 47
**********8343 *
REFUND
BATCH: 000845
INVOICE: 181200
JAN 14, 13 17:21

TOTAL -$340.56

THANK YOU

Invoice No.: 55181200
Receipt No.: 548982
Amount Received: $340.56
Date Received: 11/8/2012
Form of Payment: Credit Card
[redacted]*8343 0114
Est. Acct. NO.:
Fund: 200
Sub-activity: 59037
Receipt Source: 22228

MISTY JOHNSON
Refund requested by:

Refund approved by:

ADM USE ONLY
Warrant No.:
DE 1/14/13
Date Issued:
549964

DEQ #640-598
Revised 11/18/99

OKR051569

Ambiotec Environmental Consultants, Inc.
P.O. Box 2565
1101 East Harrison Ave.
Harlingen, Texas 78551
(956)423-7807 Fax:(956)423-7905
mhaws@ambiotec.com

Storm Water Pollution Prevention Plan

Pepsi Bottling Group
510 West Skelly Drive
Tulsa, Oklahoma
AEC Project No. 3107

January 2002
First Revision: March 21, 2002
Second Revision: March 14, 2005
Third Revision: April 12, 2006
Fourth Revision: April 6, 2007

Prepared For:

The Pepsi Bottling Group
510 West Skelly Drive
Tulsa, Oklahoma
(918) 445-8163

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WATER QUALITY
DIVISION

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1.0 Introduction

The Storm Water Pollution Prevention Plan (SWPPP) or the Pepsi Bottling Group-Tulsa facility was prepared by Ambiotec Environmental Consultants, Inc. (AEC) on behalf of the Pepsi Bottling Group-Tulsa in partial fulfillment of the Oklahoma Department of Environmental Quality's (DEQ) Oklahoma Pollutant Discharge Elimination System (OPDES) requirements for storm water discharges associated with industrial activity.

1.1 Regulatory Background

The U.S. Environmental Protection Agency (EPA) has emphasized pollutant reduction in discharges of industrial wastewater and municipal sewage through the implementation of the National Pollutant Discharge Elimination System (NPDES) program. Traditionally, storm water was assumed to pose no significant environmental risk to surface water bodies or to groundwater. Many past environmental studies, however, including the Nationwide Urban Runoff Program (NURP), have suggested that storm water discharges from industrial facilities introduce a variety of pollutants into surface waters such as lakes, streams and oceans. In response, the U.S. EPA promulgated regulations which established a Baseline Industrial General Permit for storm water discharges associated with industrial activities. In 1995, EPA implemented the Multi-Sector General Permit (MSGP) which replaced the Baseline Industrial General Permit. Most industrial facilities previously regulated under the baseline permit were required to seek storm water permit coverage under the MSGP.

On September 29, 2000, the NPDES federal MSGP permit expired. The Oklahoma DEQ issued the Oklahoma Pollutant Discharge Elimination System (OPDES) general permit on October 2, 2000 to allow continued authorization for these same discharges. The Notice of Intent (NOI) for the facility was received by the ODEQ on April 1, 2002, and the Authorization for Storm Water Discharge from an Industrial Facility No. OKGP01542 was issued on April 15, 2002. The facility is authorized to discharge storm water under the terms and conditions of the OPDES Multi-Sector Industrial Permit according to O.A.C. 252.605-1-5(B)(3)(1). The permit is effective through October 2, 2005 and will be renewed by Pepsi Bottling Group – Tulsa. In a letter dated September 25, 2005, the DEQ communicated that a new permit was under review by the EPA, and would not be approved before expiration of the old permit. The letter communicated that Pepsi should continue to operate under the old permit until the new was approved by the EPA.

1.2 Facility Eligibility

The Pepsi Bottling Group-Tulsa facility (PBG-Tulsa) was covered by the federal MSGP under Sector U (relating to Food and Kindred Products) which includes SIC Codes 20 and 21. The facility has an SIC Code of 2086, which is included in the Beverages category of Sector U. The facility bottles flavored beverages for distribution to satellite warehouse facilities. All facilities which were covered by the federal MSGP are also required under the OPDES General Permit to prepare and implement a storm water pollution prevention plan (SWPPP).

Aquatic Resources of Concern

In addition to the standard permit requirements, PBG-Tulsa is subject to special [redacted]S requirements relating to the State identified Aquatic Resources of Concern ([redacted]RC). These requirements are designed to provide additional protection to endangered and threatened species, and critical habitat in the State. PBG-Tulsa is subject to these requirements due to the location of the facility within the Arkansas River watershed, a designated Aquatic Resource of Concern. The ARC requirements are presented in Attachment 7, and implementation of facility practices in relation to the requirements is described in Section 6.4 of the SWPPP.

1.3 SWPPP Background

The plan requires the implementation of site-specific storm water controls that are tailored to the features, activities and priorities of each site. The flexibility of site-specific plans assures that facilities have the opportunity to identify cost effective storm water pollution prevention controls that are appropriate for the processes, functions, location and pollutant sources of the facility.

The SWPPP focuses on two major objectives: 1) To identify sources of pollution potentially affecting the quality of storm water discharges associated with industrial activity at the facility; and 2) to identify and implement practices to minimize and control pollutants in storm water discharges associated with industrial activity at the site.

The SWPPP requirements are intended to facilitate the process of evaluating potential pollution sources at the site, and to facilitate the selection and implementation of appropriate measures designed to prevent or control the discharge of pollutants in storm water runoff. The process involves the following steps: 1) Formation of a team of qualified plant personnel who will be responsible for implementing and maintaining the plan; 2) assessment of potential storm water pollution sources; 3) selection and implementation of appropriate management practices and controls; and 4) periodic evaluation of the ability of the plan to address storm water pollution prevention and to comply with the terms and conditions of the general permit.

2.0 Compliance Plan

Under the federal Multi-Sector General Permit (MSGP), the PBG-Tulsa facility was classified under the Beverages subsector of Sector U (relating to Food and Kindred Products Facilities). Its Standard Industrial Classification (SIC) Code is 2086. Under the OPDES program, the facility will continue to perform storm water pollution prevention activities as it was regulated under the federal NPDES program.

The PBG-Tulsa facility took the following steps to meet compliance with the provisions of the OPDES General Permit:

1) File a Permit Application

Upon completion of the SWPPP, PBG-Tulsa filed the required Notice of Intent (NOI) for this facility with the DEQ. The Notice of Intent (NOI) for the facility was received by the ODEQ on April 1, 2002, and the Authorization for Storm Water Discharge from an Industrial Facility No. OKGP01542 was issued on April 15, 2002. The facility is authorized to discharge storm water under the terms and conditions of the OPDES Multi-Sector Industrial Permit according to O.A.C. 252.605-1-5(B)(3)(1). In a letter dated September 25, 2005, the DEQ communicated that a new permit was under review by the EPA, and would not be approved before expiration of the old permit. The letter communicated that Pepsi should continue to operate under the old permit until the new was approved by the EPA.

2) Develop the Storm Water Pollution Prevention Plan

A comprehensive compliance inspection of the facility was performed by AEC on November 15, 2001 to develop the SWPPP and ensure compliance with the OPDES. The SWPPP is kept on-site and will be available for review by DEQ and local regulatory personnel as necessary.

3) Implement the Storm Water Pollution Prevention Plan

PBG-Tulsa will implement the plan and the proposed best management practices (BMPs) discussed in Section 6.0 of the plan.

4) Comply with Step 2 of Exhibit 1 of the OPDES

Since the PBG-Tulsa facility is located in an Aquatic Resource of Concern area, the facility will comply with Step 2 of Exhibit 1 relating to Storm Water Control

Measures to Protect Endangered and Threatened Species.

5) Perform Quarterly Visual Storm Water Monitoring

PBG-Tulsa currently performs quarterly monitoring for the visual observation and documentation of storm water color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen and any other obvious indicators of storm water pollution. Copies of this monitoring is on file in the office of the Production Manager.

6) Perform a Comprehensive Site Compliance Evaluation Annually

After implementation of the SWPPP, an inspection of the facility will be performed at least once per year to assure compliance with the storm water regulations and to assure consistency with the SWPPP. PBG-Tulsa will update the SWPPP, if necessary, when any significant changes at the facility could affect the quality of storm water discharges from the facility. These changes may include new facility additions, changes in materials usage, or changes in procedures that relate to the handling, processing, storage or disposal of either raw materials or finished products. A copy of the annual inspection form is included as Form 6.3.

3.0 Facility Description

The PBG-Tulsa facility is located in the western portion of Tulsa, Oklahoma and encompasses approximately 45 acres of land which is bounded to the north by Interstate 44; to the east by undeveloped land and a railroad; to the south by Mooser Creek, and to the west by a commercial facility. The Arkansas River is located approximately a quarter mile to the east of the facility. Approximately 90%-95% of the property is covered by buildings and/or pavement. Figure 1 presents a map of the PBG-Tulsa site. Major features of the facility include:

- Plant administrative offices
- Interior production areas
- Loading/unloading docks
- Fleet maintenance and vending machine refurbishing building
- Waste management areas
- Can crushing area
- Fleet fueling station with two 10,000-gallon underground diesel storage tanks
- Aboveground liquid nitrogen, carbon dioxide and ammonia tanks
- Aboveground corn syrup (fructose) tank

The majority of activities at the facility are performed in covered areas and are not exposed to storm water. A discussion of activities performed outdoors is presented in Section 3.1.

In general, facility operations involve the bottling of Pepsi products and the maintenance of fleet trucks and vending machines. Basic production operations include: receiving raw materials; storage and handling of raw materials within the facility building; production and bottling activities; storage of products; and loading of products for shipping off-site. Fleet maintenance activities include engine repairs/maintenance and truck washing. Vending machine activities include FREON reclamation, compressor repairs and general maintenance.

The hours of operation at the facility are: 24 hours per day, 7 days per week (excluding major holidays).

3.1 Activities Conducted Outdoors

Activities which are performed outdoors may potentially lead to the increase of contaminant loads to storm water discharged from the site. Outdoor activities at the PBG-Tulsa facility include:

- unloading of raw materials (e.g., flavoring concentrates) from trucks, and loading of product materials (e.g., bottled beverages) to trucks. Unloading and loading activities are performed without exposure to storm water at the facility. Loading docks at the site are equipped with exterior awnings and seals which secure the trucks to the docks during loading/unloading operations.

- can crushing activities (partially covered).

- rodent trapping using live-capture traps which contain no rodenticides. This activity is performed by an outside contractor on a weekly basis.

- routine maintenance of vegetated areas.

- storage of liquid nitrogen, ammonia and carbon dioxide in aboveground tanks. Any releases of these materials, however, would not affect storm water since exposure to air would either evaporate or freeze the materials before coming into contact with storm water. Hose connections are used at the aboveground and underground storage tanks.

- storage of corn syrup (fructose) in a 20,000-gallon vertical aboveground tank. Hose connections are used at the aboveground and underground storage tanks. Spill containment exists for this tank.

- storage of petroleum in underground tanks, including two 10,000-gallon diesel tanks.

- storage of miscellaneous vending machines and parts (e.g., compressors, refrigeration decks).

- management of waste in roll-off containers with paper/cardboard waste, scrap metal, vehicle parts, aluminum cans.

Maintenance of equipment and machinery typically occurs at indoor locations of the facility on an as-needed basis. Vending machine refurbishing activities are performed indoors ~~and include reclamation of FREON.~~ Fleet maintenance is also performed indoors at the maintenance building. Minor amounts of oils, greases and solvents relating to equipment maintenance are stored at a location within the facility building.

3.2 Inventory of Exposed Materials

The compilation of an inventory of exposed materials used at the facility is the initial step in determining which materials may potentially affect storm water.

Primary materials stored outdoors include: residual product material from crushed cans, diesel fuel, liquid nitrogen, ammonia and carbon dioxide. Other process liquid materials also include flavoring concentrations and syrups, but are not likely to be exposed to storm water.

3.3 Site Drainage and Existing Storm Water Controls

Site drainage at the PBG-Tulsa facility is characterized by a natural decrease in gradient towards Mooser Creek to the south of the site. Because of this gradient, all storm water is discharged from the site in sheet flows which are directed toward seven (7) outfalls. One underground pipe exists to convey storm water to the outfalls. Each of the outfalls would potentially be affected by any outdoor activities at the property. Figure 1 presents a map of the facility and the outfall locations.

3.4 Inventory of Past Spills and Leaks

According to the OPDES Permit, facilities subject to the permit must include in the SWPPP a summary of significant spills or leaks which have occurred at the permitted facility within the five years prior to the implementation of the plan. No significant spills in excess of reportable quantities have occurred in the past five years.

3.5 Historical Storm Water Sampling Data

No historical storm water data has been compiled for this facility.

4.0 Potential Pollutant Sources

A visual inspection of the facility was performed on November 15, 2001 by Dana Cooper, Safety & Security Specialist; Lee Thompson, CES, of Crisis Event Management Services (CEMS); and Marc Haws, P.G., of Ambiotec Environmental Consultants, Inc. (AEC). The following potential pollutant source areas were identified:

1) Can Crushing Area

A can crushing machine is exposed to storm water on the southwestern portion of the property near the fueling station. Off-spec or expired products are processed through the machine where liquid waste is directed to a sanitary sewer drain. Waste cans and plastic bottles are transferred to rolloff waste containers for off-site shipment and recycling. The can crushing operation is covered. The crushed liquid product is collected in a tank, and the pH is neutralized before sending to the POTW.

2) Waste Management Areas

Rolloff containers are used to contain waste cans and plastic bottles which previously had been processed through the can crushing machine. Residual amounts of beverages contained in the discarded cans and bottles potentially may be exposed to storm water.

A trash compactor rolloff unit is located near the can crushing machine in the southwest portion of the facility and is used primarily for paper and cardboard waste materials. Degradation of paper material due to storm water exposure may lead to an increase in suspended solid loads to storm water discharges.

Rolloff containers are located throughout the site for the purpose of storing general refuse prior to transfer for off-site disposal. Rolloff containers located near the fleet maintenance area are used for the storage of waste metal, equipment parts, and aluminum cans.

Vending machines, used compressors, refrigeration decks and other parts associated with vending machines and product dispenser equipment may be occasionally stored outside pending off-site shipment. Potential storm water pollutants include residual oil or other liquids associated with the parts.

3) Truck Loading/Unloading Areas

The loading dock areas at the PBG-Tulsa facility service the unloading of raw materials and the loading of product materials. Current storm water pollution practices include the use of dock awnings and truck seals to eliminate loading/unloading activities from exposure to storm water.

4) Aboveground Corn Syrup Storage Tank Area

One 20,000-gallon vertical tank is used to store corn syrup near the southeast corner of the main plant. The tank is equipped with tight-fitting hose connections to reduce the potential for spills to occur during product transfer activities. In February of 2005, a concrete berm was constructed around the tank.

5) Vegetated Areas

Improper maintenance of vegetated areas may lead to erosion which could impact storm water discharges at the site. Currently all unpaved areas have sufficient vegetation to minimize the potential for erosion at the site.

Section 6.3 presents a discussion of specific BMPs for the potential pollutant source areas.

5.0 Non-Storm Water Discharges

5.1 Summary of Existing Permits

Although there are no other OPDES permits associated with the facility, the facility is currently permitted by the City of Tulsa to discharge process waters to the sanitary sewer system. PBG-Tulsa sanitary discharge water includes typical sanitary discharges in addition to residual product liquids from can crushing activities.

5.2 Description of Known Non-Storm Water Discharges

The only known non-storm water discharges include minor amounts of residual product liquid associated with the can crushing activity. PBG-Tulsa is currently working to improve the system so that all waste liquids are conveyed to the sanitary sewer system. A berm exists around the entire can crushing operation now.

No other non-storm water discharges were apparent at the facility. All floor drains within the facility have been plugged and capped.

5.3 Non-Storm Water Discharge Evaluation

A review of facility diagrams was performed to identify potential non-storm water discharges at the site. Other than the discharges described in Section 5.2, no non-storm water discharge points were observed on the diagrams. In addition, dry weather inspections of the outfalls on November 15, 2001 and April 12, 2006 indicated no observable non-storm water discharges.

5.4 Certification of Non-Storm Water Evaluation

Certification that the regulated storm water discharges have been tested or evaluated for the presence of non-storm waste discharges at the facility is required for the initial implementation of the SWPPP and subsequent annual comprehensive site evaluations. Form 5-2 presents a certification of the evaluation performed during November 2001.

If such certification cannot be provided for the storm water discharges and conveyances, PBG-Tulsa must notify and provide the DEQ with the following:

- Description of evaluation procedures used or attempted;
- Results of such evaluations;
- Other relevant observations;
- Potential sources of non-storm water discharge(s); and
- Reasons for the inability to make such certification.

Form 5-3 should be used for PBG-Tulsa's documentation of such cases where certification cannot be provided.

6.0 Storm Water Management Program

PBG-Tulsa has implemented a comprehensive storm water management program for the facility which is designed to reduce potential contaminant loads in storm water discharged from the site. The following sections of the Storm Water Pollution Prevention Plan identify specific elements which will be implemented to meet the objectives of the OPDES Permit.

6.1 Pollution Prevention Team

The Pollution Prevention Team for the facility has the responsibility for developing, implementing, maintaining and revising the SWPPP. Table 6-1 identifies the team members and their areas of responsibilities.

There are four major areas of responsibilities for the team members:

X Employee Training: Implementing a storm water pollution prevention training program, including preparation of training materials, scheduling and coordinating training activities and conducting the training sessions.

X Storm Water Monitoring: Conducting quarterly visual monitoring of grab samples.

X Site Inspection: Conducting visual inspections, annual site evaluations and documenting inspections and evaluations.

X Record Keeping: Archiving all documents associated with the SWPPP and its implementation, including site maps, site evaluation reports, storm water monitoring data, maintenance records, and spill reports.

6.2 General Best Management Practices (BMPs)

Storm water pollution prevention BMPs have been and will continue to be performed at the facility to minimize or eliminate the discharge of pollutants in storm water discharges from the facility. General categories of BMPs are:

- Non-Structural Source Controls: Operational practices including good housekeeping, employee training and routine inspections that can improve water quality by minimizing or eliminating the accumulation of pollutants or the contact of pollutants with precipitation and subsequent runoff water.
- Structural Source Controls: Physical devices, features, or structures that can improve water quality by directing, diverting or otherwise controlling runoff in the vicinity of potential pollutant sources and thereby minimizing or eliminating the contact of pollutants with runoff water.
- Hydraulic controls: Devices, features, or conveyances which modify the rate or

amount of runoff and ability of runoff waters to transport potential pollutants.

- Treatment controls: Devices, equipment or systems which modify the quality of storm water passing into or through the treatment control.

Structural and non-structural source controls are the preferred methods and should be given first consideration in selection of possible control measures. Storm water treatment controls are presently not used nor are they expected to be used in the future at the PBG-Tulsa facility.

This SWPPP includes, but is not limited to, the following source controls:

- Good Housekeeping
- Spill Prevention and Response
- Sediment and Erosion Control
- Storm Water Runoff Control and Maintenance
- Best Management Practices (BMPs)
- Employee Training
- Periodic Inspections

These measures are to be continued at the facility and are described in the following sections.

6.2.1 Good Housekeeping

PBG-Tulsa will continue to use previously established good housekeeping practices to prevent contaminants from entering and impacting storm water discharges, and will be particularly emphasized at the potential pollutant source areas described in Section 4.0. Current on-site housekeeping practices may be expanded to reflect the concern for potential hazards to storm water discharges.

Good housekeeping practices are intended to maintain overall order and cleanliness, reduce the contact of potential pollutants with precipitation, and reduce the likelihood of release of pollutants to runoff waters. Appropriate good housekeeping BMPs for the facility includes the following categories:

- Cleaning-Related BMPs

  Cleaning operations will be conducted so as to minimize the amount of materials which could enter the storm water drainage system. In the event of minor spills, wet mopping techniques will be used in place of wash down, wherever feasible. If wash down is necessary, spent wash water will be visually inspected for pollutants and samples may be collected and analyzed prior to discharge to the storm sewer system. If evidence of contamination is found during analytical testing, wash water will be disposed in accordance with applicable federal, state and local regulations. On-site surfaces which

are exposed to storm water will be kept free of debris and other similar materials.

- Container Storage BMPs

  Proper storage of all materials will be performed to minimize storm water contact. Drums will be maintained in good condition, properly labeled with the contents and date, and completely covered. Drums should be stored, if possible, in a protected area with secondary containment. No chemical should be stored in a container unless the container's material and construction are compatible with the materials stored and with the conditions of storage such as pressure and temperature.

- Material Storage/Management BMPs

  The storage of materials and products and the arrangement of equipment at the facility will be conducted in an orderly fashion, especially in areas where significant activities take place. PBG-Tulsa will ensure that there is adequate space to conduct on-site operations and will facilitate proper housekeeping procedures to prevent the occurrence of spill or release incidents.

- Loading and Unloading BMPs

  Loading and unloading areas will be operated to minimize discharge of all transferred materials and/or contact with storm water. Loading dock awnings and truck seals will continue to be used at the site.

Good housekeeping BMPs selected for implementation at the facility are listed in Table 6-2.

6.2.2 Spill Prevention and Response

Development of an effective spill prevention and response program is essential to aid in minimizing potential storm water pollution. In the event of a spill or other release of a hazardous material or waste occurs at the site, specific spill response procedures will be used to abate and remediate the release. Attachment 3 presents a summary of spill response procedures which will be used for the facility. Spill prevention and response BMPs used at the facility are listed in Table 6-3. Current practices include the maintenance of spill response kits located at the fueling station.

6.2.3 Sediment and Erosion Control

Erosion of ground surfaces at the site may lead to an increase in the rate of

runon/runoff of storm water discharges. Erosion of ground surfaces at the facility is controlled by vegetation in areas which are not paved.

Construction can be a significant source of sediment pollutants. This SWPPP does not specifically address permitting or control of storm water discharges from construction activities that may require a permit for discharge of storm waters. However, an appropriate BMP for the facility is confirmation by the Pollution Prevention Team that any construction conducted at the facility is properly permitted and the construction activities conform to any permit requirements.

Sediment and erosion control BMPs selected for implementation at the facility are listed in Table 6-4.

6.2.4 Storm Water Runoff Control

Storm water runoff control practices may include devices or practices to divert, store, reuse and/or treat storm water prior to discharge. At the PBG-Tulsa facility, storm water is directed via sheet flow to six (6) outfalls on the southern boundary of the facility.

Pollutant source areas identified in Section 4.0 of this plan may be subject to additional storm water control features upon review of the current systems. Storm water controls which may be used include:

1) curbing or other form of drainage control to prevent or minimize the potential for storm water run-on to come into contact with significant sources of pollutants; or

2) roofs, covers or other forms of appropriate protection to prevent exposure.

Storm water runoff management practices at the facility are listed in Table 6-5.

6.2.5 Employee Training

Employee training programs must inform personnel at all levels of responsibility of the components and goals of the storm water pollution prevention plan. When trained properly, personnel are more capable of preventing spills, responding safely and effectively to an accident when one occurs, and recognizing situations that could lead to storm water contamination.

The Pollution Prevention Team will be responsible for assuring implementation of a training program for operations staff at the facility for the purpose of assuring the staff understands the SWPPP and how it is to be implemented in conjunction with other pollution control training.

PBG-Tulsa currently implements a monthly employee safety training program. The training program was expanded to incorporate storm water pollution prevention training, which will be provided to continuing employees at least **once a year, in the form of 3D training.** New employees will receive training as part of their facility orientation program. Training will be required for employees in the areas of:

- Objectives and requirements of the SWPPP;
- Good Housekeeping;
- Visual Inspections;
- Material/Waste Storage & Management Practices;
- Loading/Unloading Procedures;
- Spill Prevention and Response; and
- Storm Water Monitoring.

Implementation of the training program will include:

- Documentation of training program and its implementation (Form 6-1); and,
- Tracking of individual employee participation in training.

Attachment 4 presents a summary of training topics, training dates and personnel required to attend the training sessions.

6.2.6 Periodic Inspections/Maintenance

The Pollution Prevention Team will perform monthly inspections of the facility on a regular basis to assess the effectiveness of the pollution prevention BMPs described in Sections 6.2.1 thru 6.2.6. The inspections will take place at regulated areas of the facility to: 1) generally confirm conformance to the SWPPP; 2) identify incidents of nonconformance; 3) identify possible problems in the control of storm water pollution at the facility; and 4) ensure that Aquatic Resource of Concern pollutants are not exposed to storm water.

Areas to be inspected and maintained include:

- Can crushing area
- Waste management areas
- Truck loading/unloading areas
- Aboveground corn syrup storage tank area
- Vegetated Areas
- Outfalls

Periodic inspections will be performed at least once per month. A record of the inspections and important observations will be maintained on Form 6-2. The record will include:

- date of inspection;
- person performing the inspection;
- signatures of the person performing the inspection;
- observed problems; and
- corrective action taken to address observed problems, and persons responsible for undertaking or directing corrective actions.

The person performing the inspection is responsible for informing the Pollution Prevention Team of observed problems. The Pollution Prevention Team is responsible for ensuring that necessary corrective actions are undertaken in a timely manner. The inspection record is to be maintained as part of this SWPPP.

6.3 Specific BMPs for Potential Pollutant Sources

The implementation of best management practices (BMPs) associated with the potential pollutant source areas discussed in Section 4.0 will be necessary to assisting in the reduction of impacts to storm water discharges. Each of the source areas will be included in the periodic inspection program. Additional practices outlined below will be used at the facility.

- Can Crushing Area

  Minor spills of product liquids could occur at the can crushing area which may potentially affect storm water. In order to eliminate the possibility of spills from the area, PBG-Tulsa implemented the following: 1) a spill containment berm; 2) a tank to capture liquid from the crushed cans and neutralize the pH; and 3) direct conveyance of the process liquid to sanitary drain.

- Waste Management Areas

  Rolloff waste containers and the trash compactor will either be: 1) equipped with a cover to prevent waste materials from being exposed to storm water; 2) equipped with a floor drain system which conveys liquids to the sanitary sewer system; 3) transferred to a sheltered area; or 4) transferred to an outside area equipped with a sanitary sewer drain.

  Vending machine parts storage areas (e.g., refrigeration decks) will either be: 1) equipped with a shelter to prevent exposure of the materials to storm water; or 2) staged at an indoor area.

- Truck Loading/Unloading Areas

  PBG-Tulsa will continue to use dock seals and exterior awnings to prevent exposure of transferred materials to storm water. In the event of leaks or spills, mats will be used to cover the storm water inlets to prevent discharge of pollutants to the storm water system.

- Aboveground Corn Syrup Storage Tank

  In order to contain any leaks or spills of corn syrup, the tanks system was equipped with a secondary containment dike; and 2) a spill control kit.

- Vegetated Areas

  Vegetated areas will be inspected for evidence of erosion. Any identified barren or damaged areas will be immediately vegetated or repaired.

6.4 Aquatic Resource of Concern Requirements

The OPDES has specific requirements for industrial facilities which are located within AAquatic Resource of Concern@ (ARC) areas of the State. These requirements are designed to provide additional protection to threatened and endangered species, and critical habitat.

Under the OPDES, PBG-Tulsa is required to implement procedures for meeting compliance with Step 2 of the ARC requirements. A copy of the requirement is presented in Attachment 7, and a description of activities required for the PBG-Tulsa facility is presented below.

- Pollutants such as oil, grease, solid waste, human waste, hazardous or toxic material, or other material not authorized for discharge under this permit must be properly captured, treated and disposed.

  Action: Currently these pollutants are not exposed to storm water at the PBG-Tulsa facility. Best management practices described above should be sufficient for ensuring that the potential for these pollutants to migrate from the property has been minimized.

- If you are required to perform annual numeric effluent limitation monitoring you must include in your SWPPP the steps you will take to prevent any removed pollutants from entering a storm water stream.

  Action: Currently the PBG-Tulsa facility is not subject to annual numeric effluent limitation monitoring; therefore, this requirement is not applicable.

- A schedule must be included which describes the inspection practices that will be used to ensure that control measures are working effectively.

  Action: The periodic inspections BMP described in Section 6.2.6 should be sufficient for documenting inspections relating to these pollutants.

- Hazardous materials and production waste products must be stored in a manner that minimizes their contact with storm water. An emergency response plan must be included which addresses the handling of accidental spills or leaks.

  Action: The only production waste materials potentially exposed to storm water are minor amounts of residual liquids from can crushing activities. The facility is currently working to improve the system to direct all liquids to the sanitary sewer system. A description of emergency spill response actions is included in Attachment 3.

6.5 Program Implementation

In accordance with the new OPDES Permit, pollution prevention BMPs selected for the facility are to be implemented as soon as possible.

7.0 Storm Water Monitoring Requirements

The PBG-Tulsa facility is required to perform quarterly visual monitoring of storm water discharges according to the OPDES regulations. No benchmark monitoring is currently required for the facility according to the OPDES regulations. Samples will be collected during the following quarterly intervals: January through March; April through June; July through September; and October through December. The samples will be collected during daylight hours during a storm event which is a minimum of 0.1 inches of rainfall. Grab samples will be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff begins discharging at the single outfall. The grab samples will be examined and documented for observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen and other obvious indicators of storm water pollution. Visual examination reports will be maintained on-site in the pollution prevention plan.

Monitoring reports are required to be submitted to the City of Tulsa, Department of Environmental Services, under City Permit No. OKS000201.

Visual monitoring guidance and forms are included in Attachment 5.

8.0 Annual Site Compliance Evaluation

In order to achieve the storm water management objectives of this SWPPP:

X An annual comprehensive site compliance evaluation will be performed; and,

X Revisions to the SWPPP will be made on an as-needed basis to reflect any significant changes at the facility which affect the character of storm water discharges from the facility.

8.1 Site Evaluation

A comprehensive evaluation of the facility will be made at intervals not to exceed 12 months. The first evaluation will occur no later than 12 months after initial certification of the SWPPP. The annual evaluation will be performed by or under the direction of the Pollution Prevention Team. The Pollution Prevention Team can utilize such assistance as it may deem necessary to conduct and report upon the evaluation.

The objectives of the annual comprehensive facility evaluation are to:

X Review conformance of site activities with the SWPPP;
X Assess effectiveness of control measures prescribed by the SWPPP; and,
X Identify modifications and improvements to the SWPPP as may be appropriate to achieving the objective of the SWPPP.

Each incident of noncompliance to the current SWPPP found in the annual evaluation will be addressed and specific actions and requirements for removing the deficiency will be identified.

The comprehensive annual site evaluation will include at a minimum the elements described below to the extent that such elements apply to the facility or may relate to or describe conditions in storm water discharges from the facility.

8.1.1 Site Map Revision

The facility site map will be revised, as necessary, to reflect current conditions at the facility or at areas of the facility which can be reasonably expected to significantly affect storm water discharges. The revision will include significant changes or modifications in drainage structures, drainage controls, drainage patterns, outfall locations, facility structures or operating areas.

8.1.2 Verification and Identification of Sources

Previously identified sources and new sources of potential storm water pollutants will be identified and verified. Areas of previously identified sources will be examined to determine whether the source has remained unchanged or has been either significantly changed or removed.

Regulated areas of the facility will be inspected to identify any new or previously unidentified sources. This identification will incorporate an evaluation of the possible presence of new or previously unidentified non-storm water discharges. Any identified sources will be described in the modified SWPPP.

8.1.3 Outfall Inspection

The annual storm water inspections will be performed in the same manner as the quarterly inspections. The objective is to observe for evidence of polluted runoff discharges which could significantly affect receiving waters. Such evidences will include but not be limited to:

- X Presence of floatable materials or items;
- X Presence of an oil or petroleum sheen or free product;
- X Odors emanating from runoff in inlets or discharge at outfalls;
- X Oil or other pollutant residuals (as evidenced by actual product or significant coloration) on soil or conveyance structure surfaces;
- X Presence of apparent non-storm water discharges; and,
- X Discoloration of discharging or immediate receiving waters.

8.1.4 Verification and Assessment of Source Control Implementation

Each BMP described in the current SWPPP for control of pollutants in storm water discharges will be inspected and evaluated to determine:

- X Whether the BMP has been implemented or utilized;
- X Whether the BMP is being maintained or operated properly; and
- X Whether the BMP is effective in minimizing or reducing potential pollutants in storm water discharges.

If a control, lack of a control, or implementation of a control is found to be inconsistent with the current SWPPP, such deficiency will be noted as an incidence of noncompliance to the SWPPP.

The evaluation of effectiveness of a control can include: the amount or degree of apparent pollutant availability in a source area, the nature and character of runoff

waters from a source area; the degree of proper or complete functioning of the control; or the nature and character of the receiving stream.

8.1.5 Spill Response

A review of spill response procedures will be made during the annual evaluation. This review will include a review of any spill control or response plans for the facility. This review will also include an inspection of spill response equipment and its consistency with the spill response procedures. The inspection will include:

- X Availability of appropriate equipment and supplies;
- X Functioning capabilities of equipment;
- X Appropriate access to equipment and supplies by personnel who may have to use the equipment and supplies; and
- X Appropriate knowledge of availability and use of equipment and supplies by appropriate facility personnel.

Weaknesses or deficiencies in the spill response procedures or equipment and supplies will be identified in the modified SWPPP.

8.1.6 Other Plans and Requirements

New permits, permit renewals, administrative orders, enforcement orders, new compliance plans, or revisions of compliance plans pertinent to regulated storm water discharges will be reviewed and evaluated for consistency with this SWPPP.

Any new or modified municipal or other local requirements for control of pollutants in storm water discharges will be identified and evaluated for requirements for this SWPPP as appropriate.

8.1.7 Non-Storm Water Discharges

An evaluation will be performed for the presence of non-storm water discharges to site storm water conveyances or commingling with regulated storm water discharges. The evaluation will be performed using procedures prescribed in Section 5.0 of this SWPPP and any other such procedures and methods that may be judged to be necessary, advantageous, effective, or otherwise appropriate to achieving the objectives of this SWPPP.

8.1.8 Identification of Additional BMPs or BMP Modifications

Modifications of existing BMPs will be developed based upon the evaluation of new potential pollutant sources, the results of the outfall inspection, the evaluation of

existing BMPs and the review of the spill response procedures.

For each new BMP or modification to an existing BMP, the identification will include:

- X Description of the BMP or BMP modification;
- X Location(s) or area(s) for implementation of the BMP or BMP modification;
- X General requirements for implementation of the BMP or BMP modification (such as training, purchase of equipment and supplies, or construction requirements); and
- X Schedule for BMP or BMP modification implementation.

8.2 Annual Evaluation Report

A report will be prepared based on the findings of the annual evaluation. The report will address all elements, as described above, of the evaluation. It will also include:

- X Date(s) of on-site evaluation activities;
- X Name(s) of people participating in on-site evaluation activities;
- X Summary of evaluation scope and findings;
- X Significant observation evaluation elements;
- X Presentation of any storm water sampling results not previously identified or otherwise presented in the SWPPP;
- X Identification of an incidence of noncompliance to the SWPPP, if any, or certification that the facility in compliance with the current SWPPP at the time of the site evaluation;
- X Actions to be undertaken to address any incidence of noncompliance to the SWPPP; and,
- X Identification of new, modified, or additional actions, BMPs, and measures to be undertaken, pursued, or otherwise implemented to meet the objectives of the SWPPP, as identified from the annual site evaluation.

The annual evaluation report will become a part of the SWPPP and serve as documentation that the annual evaluation has been performed in accordance with MSGP regulations. The annual evaluation report should be completed within 30 days of the completion of the site inspection. Copies of the annual reports are kept in the files in the office of the Plant Manager.

8.3 SWPPP Revisions

PBG-Tulsa has the right to revise this SWPPP in any manner and at any such times that it judges to be appropriate to meeting the objectives of the SWPPP, conforming to company

policy, or complying with regulatory requirements.

8.3.1 Annual Evaluation Revisions

Based upon the annual site evaluation and the report upon that evaluation, the SWPPP may be revised as appropriate once each year to reflect the changes in site conditions in the regulated areas of the facility as identified during the annual site evaluation. The SWPPP revisions should be completed within 30 days of completion of the annual site evaluation.

8.3.2 Other Revisions

The SWPPP will be amended or otherwise appropriately revised whenever (i) there is a change in the design, construction, operation, or maintenance in the regulated areas of the facility or which may significantly impact upon regulated storm water discharges from the facility, or (ii) conditions occur or develop at the facility which can be reasonably expected to significantly impact upon storm water discharges from the facility.

Revisions to the SWPPP document will be done within a timely manner after occurrence of the conditions or completion of the action giving rise to the revision. Two weeks will be considered a timely manner, unless the nature of the action or occurrence is such that the action or occurrence cannot be described until an extended period of time has passed (e.g., construction projects). In this latter case, the revision will take place within two weeks after completion of the event.

The revisions necessitated by changes in the design, construction, operation, or maintenance of the facility which may significantly impact upon the regulated storm water discharges and pollutants therein will be done as appropriate to the nature of changes, in a manner which provides accurate description of the change, and in conformance with good engineering practice.

8.3.3 Actions Due to SWPPP Revisions

Actions required as a consequence of changes to the SWPPP will be accomplished in a timely manner, but within twelve (12) weeks after the annual site evaluation. In the event that the action required necessitates construction or other process-oriented activity requiring significant time (more than twelve weeks) for completion, the timely initiation of the activity and execution of the activity with due diligence will be considered to be in conformance with this SWPPP.

8.4 Documentation of SWPPP Revisions

Changes to the SWPPP will be incorporated in this SWPPP by appropriately dated

addendums, additions, changes, or attachments.

9.0 DOCUMENTATION AND CERTIFICATION

Actions required by this SWPPP will be documented using the forms provided herein, or other such forms or documents substantially equivalent in content to those provided herein that may be prepared from time to time. Such documentation will become part of the SWPPP.

All certifications of the SWPPP will be signed by a responsible corporate officer. All written reports required by the SWPPP will also be signed by a responsible corporate office. If signatory authority is delegated to another by a responsible corporate officer, a copy of such delegation will be attached to the SWPPP.

Certification will be provided for evaluation of non-storm water discharges using Form 5-2.

The SWPPP has been initially certified. The annual certification will certify the SWPPP and all revisions to it since the previous certification. Certifications will be made using forms provided herein. Completed SWPPP certification forms (Form 9-1) are and will continue to be attached to this SWPPP.

Inspections and maintenance activities will be documented and recorded in the plan as well as any incidents of spills, leaks or other discharges.

The record keeping and reporting plan include the following elements:

1) All visual inspections, including field notebooks, timed and dated photographs, videotapes and/or drawings and maps;
2) Maintenance activities;
3) Spill events, including, as appropriate: the date and time of the incident, quantity released, weather conditions, duration, cause, environmental problems, response procedures, parties notified, recommended revisions of the BMP program, operating procedures, and/or equipment needed to prevent recurrence; and
4) Writing formal reports relating to significant releases, particularly reportable quantity releases which are reported to the National Response Center.

In addition, any change to the storm water pollution prevention plan relating to design, construction, operation, or maintenance of systems or processes exposed to storm water influences will be documented in this plan.

A record summarizing the following related activities will be maintained with this document:

- Annual inspections;
- Periodic visual inspections;
- Spill response activities;
- Storm water monitoring results; and

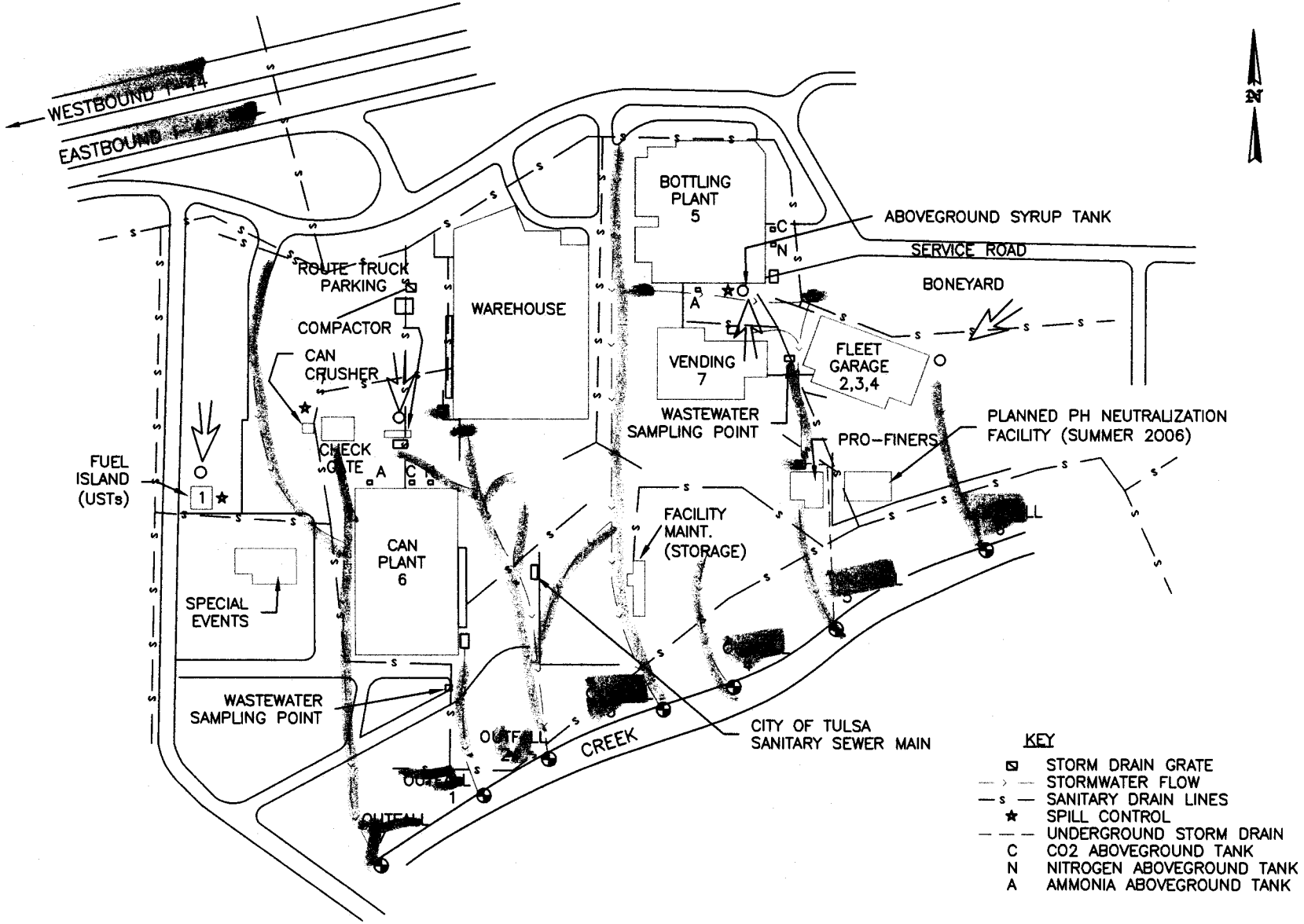
- Regulatory inspections.

Form 9-2 is provided for the summary of these activities.

Suitable blank forms to be used for certification, reporting logging and inspections that are required in this SWPPP are provided in Attachment 1. Completed forms become attachments to this SWPPP and are filed in Attachment 2.

Records will be maintained for at least one year after the expiration date of the permit.

FIGURES



NOT TO SCALE

ORION
Environmental Solutions, Inc.

SITE MAP

FILE	DATE	DRAWN	APP'D
TULSA	APRIL. 2006	DPS	

PEPSI BOTTLING GROUP
510 WEST SKELLY DRIVE, TULSA, OK.

FIGURE
1

TABLES

TABLE 4-1

CHEMICAL MATERIALS INVENTORY

MATERIAL	LOCATION	LIKELIHOOD OF CONTACT WITH STORMWATER	PAST SIGNIFICANT SPILL/LEAK
Carbon dioxide - aboveground tank	outside canning plant	low - material evaporates if released	None
Corn syrup one 20,000-gal tank	outside southeast corner of production building	moderate	None
Liquid nitrogen - aboveground tank	outside canning plant	low - material freezes if released	None
Ammonia - aboveground tank	outside canning plant	low - material evaporates if released	None
Coolants 55-gallon drums	fleet maintenance bldg.	low - sheltered	None
Lubricants 55-gallon drums	fleet maintenance bldg.	low - sheltered	None
Motor oil 500-gallon tank	fleet maintenance bldg.	low - sheltered	None
Gear oil 55-gallon drums	fleet maintenance bldg.	low - sheltered	None

TABLE 4-2

POTENTIAL POLLUTANT SOURCES

Storm Water Pollutant	Activity
Raw and product materials	Transfer (loading and unloading at dock areas); waste management; can crushing
Corn syrup	Transfer; tank or piping leaks
Engine coolants, lubricants, motor oil, gear oil	Transfer; container leaks
Suspended solids	Vegetation areas; soil erosion; trash compactor wastes
Residual oils, dirt, etc.	Vending machine storage, obsolete parts storage

TABLE 4-3

INVENTORY OF EXISTING STORM WATER CONTROL MEASURES

Significant Exposed Source	Non-Structural Control Measures	Structural Control Measures	Storm Water Treatment Measures
Can Crushing Area	spill prevention good housekeeping	Sanitary sewer inlet	None
Waste Management Areas	spill prevention good housekeeping	None	None
Truck Loading / Unloading Areas	spill prevention good housekeeping	Loading dock awnings; truck seals	None
Aboveground Storage Tanks	spill prevention good housekeeping	Tight-fitting hose connections	None
Vegetated Areas/Outfalls	routine maintenance	Vegetation of unpaved areas	None

TABLE 5-1

EXISTING PERMITS

CATEGORY OF PERMIT/PERMIT NAME OR IDENTIFICATION	ISSUING AGENCY
NPDES PERMITS	
Storm water discharge	City of Tulsa
Storm water discharge	Oklahoma Department of Environmental Quality
STATE WATER QUALITY PERMITS	
Not applicable	
OTHER PERTINENT ENVIRONMENTAL PERMITS	
None	

TABLE 5-2

ADMINISTRATIVE ORDERS OR ENFORCEMENT ACTIONS

NAME OR IDENTIFICATION OF ORDER OR ACTION	SUMMARY OF ORDER OR ACTION	ISSUING AGENCY	ISSUANCE/ EFFECTIVE DATE(S)
Storm Water Inspection (12/6/01)	Comply with OPDES regulations; perform visual monitoring	City of Tulsa	12/10/01 Monitoring due 03/31/02

TABLE 5-3

MUNICIPAL/LOCAL REQUIREMENTS

AGENCY SPECIFYING REQUIREMENT	DESCRIPTION OF REQUIREMENTS	COMMENTS
City of Tulsa	Comply with City NPDES Permit No. OKS000201	City inspected facility on 12/06/01. Guidance letter followed on 12/10/01.

TABLE 6-1
POLLUTION PREVENTION TEAM

Responsibility	To be assigned ~~Shannon Barrett~~ ~~Cynthia Kearns~~ Pepsi Bottling Group 510 West Skelly Tulsa, Oklahoma 918-445-~~8163~~ 8011	Mr. Lee Thompson President Crisis Event Management Services 7706 Treeline Dr. Sugarland, Texas 281-343-0907		
Team Leader	✔			
Signatory Authority	✔			
Conduct Employee Training	✔			
Record Keeping	✔			
Submit Reports	✔			
Implement BMPs	✔			
Routine Visual Inspection	✔			
Annual Inspection	✔			
Revise SWPPP	✔			
Storm Water Monitoring	✔			
Assist upon request with any of the above items		✔		

Pollution Prevention Team

Name	Title	Responsibility
Ray Newman	Plant Manager	Overall responsibility for implementation; weekly tours
Shannon Barrett	Production Manager	Environmental contact for plant; weekly tours
Christina Kearns	Product Availability Manager	Warehouse implementation; weekly tours
Barron Sproles	Maintenance Manager	Maintenance and oil storage implementation; weekly tours
Angeil Washington	Quality Manager	Lab implementation and weekly tours

TABLE 6-2

GOOD HOUSEKEEPING BMPs FOR FACILITY

AREA TO APPLY BMP	DESCRIPTION	DATE BY WHICH TO IMPLEMENT (If different than in text)
All Source Areas	Use dry cleanup methods, such as floor dry or other absorbent material, for petroleum or other liquids. Capture, contain and properly dispose of cleanup materials.	
All Source Areas	Pick up loose materials and trash periodically and as needed.	
All Source Areas	Sweep designated paved areas periodically and as needed. Pick up, contain and properly dispose of sweepings.	
All Source Areas	Periodically or as needed, wash down or mop designated paved areas that are subject to accumulation of pollutants where the pollutants are not readily removed by sweeping. Mop water or wash down water will be conveyed to a floor drain which discharges to the sanitary sewer.	
All Source Areas	Any other waste waters generated during routine housekeeping activities, such as wash down of designated paved areas or cleanup of materials handling equipment, will be conveyed to a sanitary sewer drain.	
Waste Storage Areas	Suitable waste collection containers, such as rolloff containers, are provided at the facility. These containers are solely for the collection of solid non-hazardous, non-recyclable, non-liquid wastes. The management controls listed below will continue to be followed to ensure that waste containers do not become a source of storm water contaminants at the facility.	
Waste Storage Areas	- Keep trash picked up and placed in durable, non-leaking containers or rolloff containers with covers. - No hazardous waste, petroleum waste, or other regulated waste will be placed in a rolloff or other receptacle to be disposed with routine non-hazardous trash.	
All Source Areas	All excess or spent materials that are not needed should be disposed of in the most cost effective manner.	

TABLE 6-2

GOOD HOUSEKEEPING BMPs FOR FACILITY

AREA TO APPLY BMP	DESCRIPTION	DATE BY WHICH TO IMPLEMENT (If different than in text)
Materials Storage Areas	Drums containing materials (i.e. not a waste and not an excess material) must be: - Stored on a paved or otherwise impermeable surface or on pallets. - Kept closed at all times. - Stored under a roof; or if stored outside, must be elevated, tilted or covered to prevent water from accumulating on top and entering the drum. - Properly marked at all times. Additional good materials management practices for drum storage areas include the following which will be implemented wherever feasible: - Maintain proper isle space to allow access and inspection. - Stack drums only if lower and upper drums are secure(e.g. banded) and on pallets. Do not stack drums greater than 2 high per pallet. - Segregate drum storage areas for incompatible materials. - Store materials and conduct maintenance activities under existing cover, where available. - Store materials (i.e. chemical, out of service equipment , dry pallets) in appropriately designated areas and reduce size of areas with exposed materials.	
All Source Areas	Wherever possible, store materials and containers on pallets or racks. In addition to contributing to good inventory management, this will facilitate inspection and cleanup of materials handling and storage areas.	
Proposed construction Areas	Review plans for new construction to identify all proposed or potential connections to the storm water drainage system. Examples of improper connections to the storm water drainage system are listed in the facility SWPPP. Inspect actual construction to ensure that improper connections are not made.	As needed
All Source Areas	Regularly inspect and clean sumps, storm drain catch basins or other points of water detention.	As needed
All source Areas	Provide employee training on good housekeeping.	

TABLE 6-2

GOOD HOUSEKEEPING BMPs FOR FACILITY

AREA TO APPLY BMP	DESCRIPTION	DATE BY WHICH TO IMPLEMENT (If different than in text)
Aboveground Storage Tank Areas	Periodically inspect tanks and piping for signs of potential leaks.	

TABLE 6-3

SPILL PREVENTION AND RESPONSE BMPs

AREA TO APPLY BMP	DESCRIPTION	DATE BY WHICH TO IMPLEMENT (If different than in text)
Can crushing area Waste management areas Loading/unloading areas Aboveground storage tanks	Acquire the appropriate spill prevention equipment, and provide quarterly inventory and inspection of the equipment	
Can crushing area Waste management areas Loading/unloading areas Aboveground storage tanks Fueling station	Keep and use absorbents and spill cleanup materials readily available for control of minor leaks and spills (e.g., spill kits).	
Can crushing area Waste management areas Loading/unloading areas Aboveground storage tanks	Use dry cleanup methods when spill occurs.	
Waste management areas Loading/unloading areas Fleet maintenance area Aboveground storage tanks	Use temporary diversion devices or structures to divert spills from storm water drains and inlets.	
Can crushing area Waste management areas Loading/unloading areas Aboveground storage tanks	Capture and properly dispose of spilled materials.	
All Employees	Provide spill and leak control and cleanup training as part of new and continuing storm water training.	

TABLE 6-4

SEDIMENT AND EROSION CONTROL BMPs

AREA TO APPLY BMP	DESCRIPTION	DATE BY WHICH TO IMPLEMENT (If different than in text)
All Source Areas	Where appropriate, maintain or establish vegetation in unpaved areas to minimize erosion potential	
All Construction Areas	Minimize exposure and disturbance of soil and natural surfaces during new construction. Minimize unnecessary construction disturbance and use staged construction. Note that under existing regulations, construction projects that disturb in excess of 5 acres are subject to special storm water permitting and control measures.	As needed
All Construction Areas	Insure that all construction obtains the necessary storm water discharge permits and ensure their compliance	As needed
All Construction Areas	In small construction areas, control erosion using straw bales, silt fences, coverings over dirt piles, and other methods to reduce runon and runoff.	As needed

TABLE 6-5

STRUCTURAL CONTROL MAINTENANCE BMPs

AREA TO APPLY BMP	DESCRIPTION	DATE BY WHICH TO IMPLEMENT (If different than in text)
All Source Areas Outfalls	Remove spilled materials which may clog storm drains, including debris and other materials collecting at low points across the site.	
Waste Management Areas	Provide cover or sanitary floor drains at rolloff container areas.	
Truck Loading/ Unloading Areas	Use mats to cover storm drains in the event of a significant spill of materials during loading/unloading activities.	
Aboveground Syrup Tanks	Install secondary containment dike around tanks and/or install drip pans at hose connections.	

TABLE 7-1

EFFLUENT LIMITATIONS ON STORM WATER DISCHARGES

PARAMETER	EFFLUENT LIMITATION	DATE LIMITATION BECAME EFFECTIVE	STORM WATER OUTFALL DISCHARGE POINT TO WHICH LIMITATION APPLIES
No current limitations - visual quarterly inspections of storm water are currently required.			

TABLE 7-2

SUMMARY OF STORM WATER SAMPLING REQUIREMENTS

PARAMETER	SAMPLING FREQUENCY	SAMPLE TYPE	SAMPLING LOCATION
Color, odor, clarity, floating solids, foam, oil sheen and any other obvious indicators of storm water pollution.	Quarterly	grab	Outfalls 1 thru 6

* Note: Pending requirements of the Final Permit.

Pollution Prevention Team

Name	Title	Responsibility
Ray Newman	Plant Manager	Overall responsibility for implementation; weekly tours
Shannon Barrett	Production Manager	Environmental contact for plant; weekly tours
Christina Kearns	Product Availability Manager	Warehouse implementation; weekly tours
Barron Sproles	Maintenance Manager	Maintenance and oil storage implementation; weekly tours
Angeil Washington	Quality Manager	Lab implementation and weekly tours

ATTACHMENT 1

FORMS

FORM 5-3

REPORT ON INABILITY TO CERTIFY FOR EVALUATION OF NON-STORM WATER DISCHARGES

Description of areas, storm water conveyance, outfalls, and similar for which certification can not be provided	Dates and Methods Used to Attempt to Make Evaluations	Results of Attempted Evaluations and Related Observations	Potential Sources of Non-Storm Water Discharges in Areas Where Evaluation was Not Possible	Reasons Why Evaluation Was Infeasible	Dates of Notification To Permitting Agency That Certification Was Not Possible
N/A					

Attach additional sheets as necessary for full explanation

THE PEPSI BOTTLING GROUP

ENV-FRM-9	Date Issued: 5/26/06	Prepared By: Paul Wilson
Department: Environmental		Approved By: John Burns
Title: Monthly Storm Water Inspection Form		Rev# 1

Inspection Date:_____

Inspector:_____

Condition Observed	Location(s) or "Not Observed"	Corrective Action	Assigned to/ Date Due
Process liquid flowing to storm drain, storm ditch, stream, river, or ground.			
Leaking pipes, pumps, valves and/or hose connections.			
Evidence of spilled materials in storm water (sheen on water, odor, unusual color, foam, sediment).			
Clogged storm drain.			
Debris, trash, pallets/pallet parts or other materials in storm water collection area or drain.			
Leaking product containers without secondary containment.			
Evidence of tracking, splashing, or spilling of product or fructose on the ground.			
Evidence of spots/pools/puddles or other traces of oil/grease or product or chemicals on the ground.			
Open drums (no lids or bungs).			
Dirty, leaking, or corroded chemical drums without secondary containment.			
Chemicals dispensed, poured or used outside without containment.			
Non-empty containers without clear labels or not labeled at all.			
Equipment without cover and/or without pallets to lift off the ground.			

ENV-FRM-9	Date Issued: 5/26/06	Prepared By: Paul Wilson
Department: Environmental		Approved By: John Burns
Title: Monthly Storm Water Inspection Form		Rev# 1

Vehicle or equipment maintenance performed outside without cover or secondary containment.			
Wash water from vehicle or equipment washing that has potential to flow to storm drain, ditch, or ground.			
Vehicle equipment/parts (such as transmissions, radiators, engines, brake shoes, tires w/o rims, etc) stored outside.			
Evidence of fuel, oil, antifreeze around fuel island, and dispensers.			
Greasy or oily or sticky materials or equipment stored outside.			
Broken, cracked, or leaking secondary containment.			
Uncovered trash dumpster (without lid, or not under canopy or roof).			
Leaking trash container.			
Missing absorbent material or other spill cleanup materials near oil or chemical storage or dispensing areas.			
Open vending equipment (with exposed greasy/oily parts) without cover or secondary containment.			
Evidence of floor scrubber or floor cleaning wastewater and/or detergent being poured down a storm drain or on the ground.			
Fountain equipment not flushed, capped without cover and/or without pallets to lift off the ground.			
Other conditions:			

Signature of Inspector _____ Date: _____

THE PEPSI BOTTLING GROUP

6.3

Attachment C
Storm Water Annual Comprehensive Site Evaluation Report

Facility Name and Address:_____

_____

Date of Inspection:_____

Name of Inspector(s) Signature of Inspector(s)

_____

_____

_____

Observation/Finding	Corrective Action Required	Corrective Action Taken	Date Completed

1. Based on the inspection, are storm water pollution prevention measures adequate and properly implemented?_____
2. Are additional controls needed?_____
3. Does the SWPP Plan require updating?_____
   (SWPPP must be updated within 2 weeks and implemented within 12 weeks.)

"I certify that the facility (is/is not)* in compliance with the SWPPP. I certify under penalty of law that this evaluation was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature:_____ Date:_____

Name:_____ Title:_____

***Note: If there are any non-compliance findings, you must circle that the facility <u>is not</u> in compliance. If there are no non-compliances found, you can circle that the facility is in compliance.**

THE PEPSI BOTTLING GROUP

Attachment 3 -

SWPP Plan Annual Evaluation

*Name of Inspectors:*_____ *Date of Inspection:*_____

Inspection Checklist	Yes	No	Observation/Actions Needed	Corrective Actions Taken	Date Completed
Storm Drain & Control Structures					
Are there any process pipes draining to stormwater?					
Are the storm drains operating properly?					
Do the storm drains need repairs?					
Do the storm drains need clean out?					
Is there trash or debris in the area around the storm drains?					
List other storm water control structures inspected including retention ponds, oil/water separators, etc. Note any corrective actions needed.					
Dumpsters					
Are the trash dumpsters covered?					
Is there any evidence of spills or releases in the area?					
Is there trash or debris outside the dumpster that needs cleanup?					
Exterior Areas Including Parking Lots, Outdoor Storage Areas, Loading and Unloading Areas, Fueling Areas and Storage Tanks List areas inspected:					
Is there any evidence of releases or spills or pollutants entering the storm water?					
Does the pavement need repair, cleaning, or sweeping?					
Is there trash or debris that needs cleanup?					
Are containers and tanks) in good condition?					
Are there areas of erosion?					
Spill Equipment					

THE PEPSI BOTTLING GROUP

Inspection Checklist	Yes	No	Observation/Actions Needed	Corrective Actions Taken	Date Completed
Is spill equipment such as portable berms, Absorb-All, and appropriate containers available and stocked at appropriate locations (fueling island, can crusher, liquid storage areas, etc.?					
Has annual SWPPP training been performed?					

ATTACHMENT 2

COMPLETED FORMS

FORM 4-1

REPORT OF SIGNIFICANT SPILLS AND LEAKS

DATE AND LOCATION OF SIGNIFICANT SPILL OR LEAK	TYPE OF LIQUID OR OTHER MATERIALS SPILLED OR LEAKED	ESTIMATED AMOUNT (VOLUME AND/OR WEIGHT) OF MATERIAL SPILLED OR LEAKED	ACTION TAKEN IN RESPONSE: DESCRIBE (Provide attachments as needed for full description)
None			
NONE 3/5/03			
NONE 10/29/04			
None 8/05			
None 4/06			
None 4/07			

FORM 5-1

REPORT ON PRESENCE OF NON-STORM WATER DISCHARGES IN STORM WATERS

Location/Description of Non-Storm Water Discharge	Outfall to Which Non-Storm Water Discharge Drains	Date When and Method by Which Found	Date and Description of Correction Action Taken
None			
None 03/05/03			
NONE 10/29/04			
None 8/05			

None 4/06

NONE 4/07

FORM 5-2

EVALUATION OF NON-STORM WATER DISCHARGES

Date of Test/Evaluation	Outfall Tested (List below and identify on site map)	Method Used to Evaluate for Non-Storm Water Discharge	Persons/Organizations Making Evaluation
November 15, 2001	Outfalls 1 - 6	Dry weather outfall inspection; review of site maps	Dana Cooper Lee Thompson, CEMS Marc Haws, AEC
03/05/03	Outfall 1-6	Dry weather outfall insp.	Lee Thompson Dana Cooper
11/4/04	OUTFALL 1-7	DRY WEATHER OUTFALL INSPECTION	MARC HANS AEC SHANNON BARRETT QAM
4/05	OUTFALLS 1-7	DRY WEATHER OUTFALL INSPECTION	CHRISTINA KEARNS PROD MGR BG WILLIAMS, ORION
4/06	"	"	CHRISTINA KEARNS, PROD MGR
4/07	"	"	SHANNON BARRETT, PROD. MGR

CERTIFICATION OF EVALUATION OF NON-STORM WATER DISCHARGES

I certify under penalty of law that the outfall(s) covered by this document and listed above have been tested or evaluated for the presence of non-storm water discharge *[and that any such discharges which are not exempt from permitting requirements have been eliminated]* under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information presented above. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Lee Thompson	Consultant		03/05/03
Name (Print/Type)	Title	Signature	Date

FORM 9-1

CERTIFICATION OF SWPPP FOR THE PEPSI BOTTLING GROUP-TULSA FACILITY

I certify under the penalty of law that this document, all attachments, and any revisions to this document or its attachments made since the last certification prior to the present were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

INITIAL CERTIFICATION

Name	Title	Signature	Date
Lee Thompson	Consultant		02/05/03

REVISIONS AND ANNUAL CERTIFICATION

Name	Title	Signature	Date
Shannon Bartlett	Prod. Mgr		4/6/07

FORM 9-2

ACTIVITY RECORD

Type of Activity: - **Annual** - **Periodic - specify frequency** - **Periodic - After rainfall** - **Spill Response** - **Regulatory Inspection** - **Other-specific**	**Persons Conducting Activity**	**Date of Activity**	**Comments**
Annual	Lee Thompson	02/05/03	Compliant

ATTACHMENT 3

SPILL RESPONSE CONTACTS AND PROCEDURES

GENERAL FACILITY INFORMATION AND EMERGENCY CONTACTS

Name of Facility:	Pepsi Bottling Group - Tulsa Marketing Unit
Address of Facility:	510 West Skelly Drive Tulsa, Oklahoma 74107
Type of Facility:	Beverage bottling facility
SIC Code:	2086
Operating Schedule: **Administrative Hours:**	24 hours/day; 7 days/week (excluding major holidays)
Number of Employees:	Approximately 350
Emergency Contact:	Mr. Colby Ballard / Ray Newman
Title:	Safety Coordinator / Plant Manager
Work Phone:	(918) 445-8163 / (918) 445-8012
Emergency Phone:	(918) 809-5028 cell / (918) 636-2989
	Colby responsible for overall safety program Ray responsible for overall plant operations
EMERGENCY POLICE/ FIRE DEPT. PHONE:	911
Emergency Response Coordinator:	Crisis Event Management Services Mr. Lee Thompson 7706 Treeline Drive Sugar Land, Texas 77479 **24-hour emergency phone: (888) 450-0907** Office: (281) 343-0907 Respond to spills that impact SWPPP
SWPPP Technical Consultant:	Dennis Hunter, Orion Environmental (865) 577-7124

GENERAL SPILL RESPONSE PROCEDURES

Leaks, Seeps, and Other Non-Flowing Releases of Nonflammable Products

1) Take actions and/or confirm that containment is provided by checking the position of valves, placement of sandbags, etc.

2) Notify the facility personnel responsible for supervising remedial actions of the location and status of the release. Document actions taken to mitigate spill.

Leak, Seeps, and Other Non-Flowing Releases of Flammable Products

1) Call for assistance from appropriate personnel.

2) Terminate possible ignition sources such as motors, vehicles, etc.

3) Post qualified personnel at a safe location to prevent entry into the affected areas by unauthorized persons.

4) Take actions and/or confirm that containment is provided by checking the position of valves, placement of sandbags, etc.

5) Notify the facility personnel responsible for supervising remedial actions of the location and status of the release. Document actions taken to mitigate spill.

Flowing Releases of Nonflammable Products

1) Terminate the source of the release.

2) Take actions and/or confirm that containment is provided by checking the position of valves, placement of sandbags, etc.

3) Notify the facility personnel responsible for supervising remedial actions of the location and status of the release. Document actions taken to mitigate spill.

GENERAL SPILL RESPONSE PROCEDURES (CONTINUED)

Flowing Releases of Flammable Products

1) Call for assistance from all personnel in immediate area; warn other personnel, including those off-site, that there may be immediate danger due to the release.

2) Terminate source and any ignition source such as motors, vehicles, etc.

3) Post qualified personnel at a safe location to prevent entry into the affected areas by unauthorized persons.

4) Take actions and/or confirm that containment is provided by checking the position of valves, placement of sandbags, etc.

5) Notify the facility personnel responsible for supervising remedial actions of the location and status of the release. If the supervisory personnel are not available, notify the local Fire Department immediately. Document actions taken to mitigate spill.

ATTACHMENT 4

STORM WATER TRAINING OUTLINE

STORM WATER TRAINING OUTLINE

1. Storm Water Regulations
2. Storm Water Pollution Prevention Plan
3. Assessment of Storm Water Pollutants
4. Best Management Practices
5. Employee Training
6. Record Keeping
7. Annual Evaluation

ATTACHMENT 5

VISUAL MONITORING GUIDANCE AND FORMS

Visual Monitoring

The requirements and procedures for visual monitoring are applicable to all facilities required to perform storm water runoff monitoring as per the City of Tulsa Ordinance #18588.

- You must perform and document a visual examination of a storm water discharge associated with industrial activity from each outfall, except discharges exempted below. The visual examination must be made during daylight hours (e.g., normal working hours).

- Your visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging from for your facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well-lighted area. No analytical tests are required to be performed on the samples. All such samples must be collected for the discharge resulting for a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater that 0.1 inch rainfall) storm event. Where practicable, the same individual should carry out the collection and examination of discharges for the entire permit term.

Representative Outfalls – Substantially Identical Discharges
If your facility has two (2) or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials or storm water management practices occurring within the outfalls' drainage areas, you may examine the effluent of just one of the outfalls and report that the examination also applies to the substantially identical outfall(s). For this to be permissible, you must describe in a letter, the following: locations of the outfalls; why the outfalls are expected to discharge substantially identical effluents. This letter must accompany the sampling results when submitted to the City of Tulsa.

The following Table is an example of what you should look for in a visual monitoring sample.

Table - Visual Monitoring

Parameter	Method	Results
Color and Extent	Visual	Clear, yellow, red, blue, green, brown, black, milky, etc.
Odor	Smell	None, earthy, sewage, musky, rotten eggs, petroleum, etc.
Clarity or Turbidity	Come up with your own test Such as, clean off the label From a 2 liter clear plastic bottle, fill with the sample, and try to see things through it.	1) can't see through the bottle 2) can see through but could not read newsprint 3) can see through and can read newsprint. 4) pretty clear, but not as clear as bottled water 5) as clear as bottled water
Floating solids	Visual	Yes/no – describe what they are
Settled solids	Use same 2 liter bottle	Tablespoons or cups of material or millimeters of solids on bottom after 24 hours
Suspended solids	Look through the container	What do you see?
Foam	Visual	Yes/no – how thick is the foam?

		How much of the surface does it cover? What color is the foam?
Oil sheen	Visual	Color an extent
Other obvious indicators of storm water pollution	Indicate what you observed that would lead a reasonable person to believe that the storm water was polluted.	Tell it like you see it.

- You must maintain your visual examination reports onsite. The report must include the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids settled solids, suspended solids, foam, oil sheen and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
- Inactive and unstaffed sites: When you are unable to conduct visual storm water examinations at an inactive and unstaffed site, you may exercise a waiver of the monitoring requirement as long as the facility remains inactive and unstaffed. If you exercise this waiver, you must maintain a certification stating the site is inactive and unstaffed and that performing visual examinations during a qualifying event is not feasible. You must sign and date this waiver for it to be valid.

Visual Monitoring Form

City of Tulsa-Environmental Services
4818 S. Elwood
Tulsa, Oklahoma 74107

Completed by: _____
Title: _____
Location: _____
Date & Time: _____

Instructions: Operations will sample and analyze the following areas: access roads/rail lines, equipment storage and maintenance areas (indoor and outdoor), fueling and chemical areas, residual treatment or storage, wastewater treatment areas. Operations will complete the Field Inspections Form included, at times of a potential pollutant. Records of inspection shall be maintained within Pollution Prevention Plan.

General Information

Time Since Last Rain (more than 0.1 in.): longer than 72 hours ago___ less than 72 hours ago___ (Invalid rain event...do not sample)
Time Since Beginning of Current Rain Event: less than 1 hr. ago___ greater than 1 hr. ago___ (Invalid rain event...do not sample)
Total Rainfall of Current Event: greater than 0.1 in.___ less than 0.1 in.___ (Invalid sample...must re-sample)

Visual Observations (Samples should be taken in a clear bottle)

Color: Clear___ Red___ Yellow___ Green___ Gray___ Black___ Other_____
Odor: None___ Earthy___ Sewage___ Musky___ Rotten Eggs___ Petroleum___ Other_____
Clarity: Can't see through bottle___ Can see through but could not read newsprint___ Can see through and can read newsprint___
Pretty clear, but not as clear as bottled water:___ As clear as bottled water___
Floating solids: Yes___ No___ Description:_____
Settled solids: Yes___ No___ Size of bottle:_____ Amount of settled solids in bottle:_____
Suspended solids: Yes___ No___Description:_____
Foam: Yes___ No___ Thickness:_____ How much of the surface does it cover?:_____ Color:_____
Oil Sheen: Yes___ No___ Color and Extent:_____
Other obvious indicators of storm water pollution:_____

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry or the person or persons who manage the system or those persons directly responsible for gathering the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name & Official Title (Type or Print):_____
Area Code and Telephone Number:_____
Signature:_____
Date Signed:_____

ATTACHMENT 6

OPDES REQUIREMENTS FOR BEVERAGE FACILITIES

Sector U - Food and Kindred Products

U.1 Covered Storm Water Discharges

The requirements in Part 12.U apply to storm water discharges associated with industrial activity from Food and Kindred Products facilities as identified by the SIC Codes specified in Table 1-2 and Part 1.2.1.

U.2 Industrial Activities Covered by Sector U.

The types of activities that permittees under Sector U are primarily engaged in are:

- Meat products;
- Dairy products;
- Canned, frozen and preserved fruits, vegetables, and food specialties;
- Grain mill products;
- Bakery products;
- Sugar and confectionery products;
- Fats and oils;
- Beverages;
- Miscellaneous food preparations and kindred products and tobacco products manufacturing.

U.3 Limitations on Coverage.

Not covered by this permit: storm water discharges identified under Part 1.2.3 from industrial plant yards, material handling sites; refuse sites; sites used for application or disposal of process wastewaters; sites used for storage and maintenance of material handling equipment; sites used for residential wastewater treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; and storage areas for raw material and intermediate and finished products. This includes areas where industrial activity has taken place in the past and significant materials remain. "Material handling activities" include the storage, loading / unloading, transportation or conveyance of any raw material, intermediate product, finished product, by-product or waste product.

- **Prohibition of Non-Storm Water Discharges (See also Part 1.2.2)**

  Not authorized by this permit: discharges subject to Part 1.2.2 include discharges containing: boiler blowdown, cooling tower overflow and blowdown, ammonia refrigeration purging and vehicle washing / clean-out operations.

U.4 Storm Water Pollution Prevention Plan (SWP3) Requirements

In addition to the following requirements, you must also comply with the requirements listed in Part 4.

- **Drainage Area Site Map. (See also Part 4.2.2)**
  Identify the locations of the following activities if they are exposed to storm water / runoff: vents / stacks from cooking, drying and similar operations; dry product vacuum transfer lines; animal holding pens; spoiled product; and broken product container storage areas.

- **Potential Pollutant Sources. (See also Part 4.2.4)**
  Describe, in addition to food and kindred products processing-related industrial activities, application and storage of pest control chemicals (e.g., rodenticides, insecticides, fungicides, etc.) used on plant grounds.

- **Inspections. (See also Part 4.2.8)**
  Inspect on a regular basis, at a minimum, the following areas where the potential for exposure to storm water exists: loading and unloading areas for all significant materials; storage areas including associated containment areas; waste management units; vents and stacks emanating from industrial activities; spoiled product and broken product container holding areas; animal holding pens; staging areas; and air pollution control equipment.

- **Employee Training. (See also Part 4.2.8)**
  Address pest control in the training program.

U.5 Visual Monitoring: Quarterly visual monitoring is a requirement. See Part 5.1.1.

ATTACHMENT 7

OPDES AQUATIC RESOURCE OF CONCERN REQUIREMENTS (STEP 2)

2. If your industrial facility is not located within any of these areas, the facilities storm water discharge or storm water discharge related activities are not likely to significantly affect endangered and threatened species. You may then skip Step 2 and further investigation is unnecessary.
3. If your facility is located within the area of any of the Aquatic Resources of Concern, continue on to Step 2.

Step 2. Implementation of Storm Water Control Measures to Protect Endangered and Threatened Species:

1. If your industrial facility is located within the area of an Aquatic Resource of Concern you must incorporate the following measures into the SWP3 for the facility.
   a. Pollutants such as, oil, grease, solid waste, human waste, hazardous or toxic material, or other material not authorized for discharge under this permit must be properly captured, treated, and correctly disposed of. These potential pollutants must be properly managed and their contact with storm water minimized or eliminated to the greatest extent practicable.
   b. If you are required to perform annual numeric effluent limitation monitoring you must include in your SWP3 the steps you will take to prevent any removed pollutants from entering a storm water stream. These pollutants must be retained on site, treated, or disposed of properly to the greatest extent practicable. Control measures must be properly installed and maintained at all times, and off-site accumulations of any escaped sediment must be removed.
   c. A schedule must be included which describes the inspection practices that will be used to ensure that control measures are working effectively.
   d. Hazardous materials and production waste products must be stored in a manner that minimizes their contact with storm water. An emergency response plan must be included which addresses the handling of accidental spills or leaks.

2. You must comply with any terms and conditions imposed under the eligibility requirements to ensure that your storm water discharges and storm water discharge-related activities are protective of listed species and/or critical habitat. Any such terms and conditions must be incorporated in the your SWP3. In accordance with Part 1.2.5 of the permit, your signed NOI will be deemed to constitute your certification of eligibility. If the eligibility requirements cannot be met, you may seek coverage under a DEQ individual permit.

Step 3 Check the appropriate box on the NOI Form.

There are three different options to certify your eligibility. Check the box that corresponds to the option on which you are relying.

   a. Your facility is not located in or draining to an Aquatic Resource of Concern as identified on the map. Your facility is located in or drains to an Aquatic Resource of Concern and you agree to implement the control measures specified in Step 2 above.
   b. Your facility is located in or drains to an Aquatic Resource of concern and you agree to implement the control measures specified in Step 2 above.
   c. You are relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

Summary of
Storm Water Pollution Prevention Activities

Pepsi Bottling Group
510 West Skelly Drive
Tulsa, Oklahoma

Activity	Frequency	Comments
Periodic Inspections	Monthly	Inspect potential pollutant source areas, structural BMPs, storm drains and outfalls. Correct inefficiencies.
Collect Storm Water Samples and Document Observations	Quarterly	Visual monitoring only no analytical testing required.
Site Compliance Evaluation	Annually	Ensure that SWPPP is updated.
Employee Training	Annually	For personnel involved in outdoor activities (e.g., fleet maintenance, fork lift operators, etc.) May be performed in conjunction with safety training program.

Invoice No.: 61071216 Amount Due: $250.00 Ple:

200/59017/22245

PEPSI BOTTLING GROUP
BARRON SPROLES
510 WEAT SKELLY DRIVE
TULSA, OK 74107

RECEIVED JUN 0 1 2010

Registration No.: XR253 520078 A:

DEPARTMENT OF ENVIRONMENTAL QUALITY
ADMINISTRATIVE SERVICES–ACCOUNTS RECEIVABLE
P.O.BOX 2036
OKLAHOMA CITY, OK 73101-2036

☐ Electronic Pay...
Bank One: Routing

☐ Purchase Order No.: _

Revised 1/15/03

Please print or type with ELITE type *(12 characters per inch)* in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 9-30-88.
GSA No. 0246-EPA-OT

United States Environmental Protection Agency
Washington, DC 20460

RECEIVED
EPA REGION VI
1986 OCT -9 AM 10 22

EPA Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notificetion* before completing this form. The information requested here is required by law *(Section 3010 of the Resource Conservation and Recovery Act).*

For Official Use Only

HAZARDOUS WASTE PROGRAMS BRANCH
NOV 05 1986

Installation's EPA ID Number	Approved	Date Received (yr. mo. day)
C F OKD 98-161-0546 T/A C 1		

143/Tulsa
OCT 08 1986

I. Name of Installation

C 1: PEPSI-COLA BOTTLING CO.

II. Installation Mailing Address

Street or P.O. Box

C 3: 5202 S. HOUSTON

City or Town	State	ZIP Code
C 4: TULSA	OK	74157

III. Location of Installation

Street or Route Number

C 5: 5202 S. HOUSTON

City or Town	State	ZIP Code
C 6: TULSA	OK	74157

IV. Installation Contact

Name and Title *(last, first, and job title)*	Phone Number *(area code and number)*
C 2: SCOTT DWIGHT AS. MGR.	918 446 6601

V. Ownership

A. Name of Installation's Legal Owner	B. Type of Ownership *(enter code)*
C R: PEPSI-COLA BOTTLING	P

VI. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

- [X] 1a. Generator
- [X] 1b. Less then 1,000 kg/mo.
- [ ] 2. Transporter
- [ ] 3. Treater/Storer/Disposer
- [ ] 4. Underground Injection
- [ ] 5. Market or Burn Hazardous Waste Fuel *(enter 'X' end mark appropriete boxes below)*
  - [ ] a. Generetor Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner

B. Used Oil Fuel Activities

- [ ] 6. Off-Specification Used Oil Fuel *(enter 'X' end mark appropriete boxes below)*
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner
- [ ] 7. Specification Used Oil Fuel Marketer *(or On site Burner)* Who First Cleims the Oil Meets the Specification

DEC 8 1986
Waste Management Service

VII. Waste Fuel Burning: Type of Combustion Device *(enter 'X' in all eppropriete boxes to indicete type of combustion device(s) in which hezerdous weste fuel or off-specificetion used oil fuel is burned. See instructions for definitions of combustion devices.)*

[ ] A. Utility Boiler [ ] B. Industrial Boiler [ ] C. Industrial Furnace

VIII. Mode of Transportation *(transporters only — enter 'X' in the appropriate box(es)*

[ ] A. Air [ ] B. Rail [ ] C. Highway [ ] D. Water [ ] E. Other *(specify)*

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

[X] A. First Notification [ ] B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number

ID — For Official Use Only			
C		T/A	C
W			1

X. Description of Hazardous Wastes *(continued from front)*

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
D001	F002	F004			
7	**8**	**9**	**10**	**11**	**12**

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	**38**	**39**	**40**	**41**	**42**
43	**44**	**45**	**46**	**47**	**48**

D. Listed Infectious Wastes. Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.21 — 261.24)*

- [X] 1. Ignitable *(D001)*
- [X] 2. Corrosive *(D002)*
- [ ] 3. Reactive *(D003)*
- [X] 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
Dwight O. Scott	ASST. FLEET MANGER	10-3-86

OKD981610546

Form Approved. OMB No. 2050-0028. Expires 9-30-88.
GSA No. 0246-EPA-OT

Please print or type with ELITE type *(12 characters per inch)* in the unshaded areas only

United States Environmental Protection Agency
Washington, DC 20460

EPA Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law *(Section 3010 of the Resource Conservation and Recovery Act)*.

For Official Use Only

Comments

C
C

Installation's EPA ID Number		Approved	Date Received (yr. mo. day)
C F	T/A C 1		

RECEIVED
OCT 0 0 1986

I. Name of Installation

PEPSI-COLA BOTTLING CO

II. Installation Mailing Address

Street or P.O. Box

C 3 5202 S. HOUSTON

City or Town	State	ZIP Code
C 4 TULSA	OK	74157

III. Location of Installation

Street or Route Number

C 5 6202 S. HOUSTON

City or Town	State	ZIP Code
C 6 TULSA	OK	74157

IV. Installation Contact

Name and Title *(last, first, and job title)*	Phone Number *(area code and number)*
C 2 SCOTT DWIGHT AS. MGR.	918 446 6601

V. Ownership

A. Name of Installation's Legal Owner	B. Type of Ownership *(enter code)*
C R PEPSI-COLA BOTTLING	P

VI. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

- [X] 1a. Generator
- [X] 1b. Less than 1,000 kg/mo.
- [ ] 2. Transporter
- [ ] 3. Treater/Storer/Disposer
- [ ] 4. Underground Injection
- [ ] 5. Market or Burn Hazardous Waste Fuel *(enter 'X' and mark appropriate boxes below)*
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner

B. Used Oil Fuel Activities

- [ ] 6. Off-Specification Used Oil Fuel *(enter 'X' and mark appropriate boxes below)*
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner
- [ ] 7. Specification Used Oil Fuel Marketer *(or On site Burner)* Who First Claims the Oil Meets the Specification

VII. Waste Fuel Burning: Type of Combustion Device *(enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)*

[ ] A. Utility Boiler [ ] B. Industrial Boiler [ ] C. Industrial Furnace

VIII. Mode of Transportation *(transporters only — enter 'X' in the appropriate box(es)*

[ ] A. Air [ ] B. Rail [ ] C. Highway [ ] D. Water [ ] E. Other *(specify)*

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

[ ] A. First Notification [ ] B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number

EPA Form 8700-12 (Rev. 11-85) Previous edition is obsolete.

Continue on reverse

ID — For Official Use Only														
C													T/A	C
W														1

X. Description of Hazardous Wastes *(continued from front)*

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
D001	F002	F004			
7	**8**	**9**	**10**	**11**	**12**

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	**38**	**39**	**40**	**41**	**42**
43	**44**	**45**	**46**	**47**	**48**

D. Listed Infectious Wastes. Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.21 — 261.24)*

- [X] 1. Ignitable *(D001)*
- [X] 2. Corrosive *(D002)*
- [ ] 3. Reactive *(D003)*
- [X] 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
Dwight O. Scott	ASST. FLEET MANGER	10-3-86

OKD 981610553

EPA United States Environmental Protection Agency

Handler - Handler Search

RCRAInfo

Enter the Street Name, City and State you wish to search on:

Street Name: %Houston%
Wildcard searches are allowed (i.e. %dupont%, auto%, etc.).

City: Tulsa
Wildcard searches are allowed (i.e. Ft%, %ville, etc.).

State: OK

Search **Cancel** **Clear**

Your search has found **1** handler(s).

Search Results

Act Loc	Handler Name	EPA Id	Street No.	Street Address	City	State	Zip Code	County	In a Universe
OK	BEVERAGE PRODUCTS CORP	OKD981610546	5202	S. HOUSTON	TULSA	OK	74157	TULSA	Y

Create New Handler

URL: /HANDLER2/Handler_srch.asp

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only.

Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0246-EPA-OT

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

EPA Notification of Regulated Waste Activity

United States Environmental Protection Agency

RECEIVED JUN - 6 1991 RCRA PROGRAMS BRANCH

Date Received (For Official Use Only)

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

[X] A. First Notification [ ] B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number: OKD981610546

II. Name of Installation *(Include company and specific site name)*

Beverage Products Corp.

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 5202 S Houston

Street (continued):

City or Town: Tulsa | State: OK | ZIP Code: 74107-

County Code: | County Name: Tulsa

IV. Installation Mailing Address *(See Instructions)*

Street or P.O. Box: 510 W Skelly Dr.

City or Town: Tulsa | State: OK | ZIP Code: 74107-

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name *(last)*: DuBose | *(first)*: David

Job Title: Distribution Supv. | Phone Number *(area code and number)*: 918-446-6601

VI. Installation Contact Address *(See Instructions)*

A. Contact Address Location [ ] Mailing [X]

B. Street or P.O. Box: 510 W Skelly Dr.

City or Town: Tulsa | State: OK | ZIP Code: 74107-

VII. Ownership *(See Instructions)*

A. Name of Installation's Legal Owner: Pepsi-Cola Bottling Co

Street, P.O. Box, or Route Number: 510 W Skelly Dr

City or Town: Tulsa | State: OK | ZIP Code: ~~74107~~ -

Phone Number *(area code and number)*: 918-446-6601

B. Land Type | C. Owner Type | D. Change of Owner Indicator: Yes [ ] No [ ] | (Date Changed) Month Day Year

EPA Form 8700-12 (01-90) Previous edition is obsolete.

Continue on reverse

W5-28-91

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Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0245-EPA-OT

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VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to Instructions.)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - [ ] a. Greater than 1000kg/mo (2,200 lbs.)
   - [ ] b. 100 to 1000 kg/mo (220 - 2,200 lbs.)
   - [X] c. Less than 100 kg/mo (220 lbs.)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - [ ] a. For own waste only
   - [ ] b. For commercial purposes

   Mode of Transportation
   - [ ] 1. Air
   - [ ] 2. Rail
   - [ ] 3. Highway
   - [ ] 4. Water
   - [ ] 5. Other - specify
3. [ ] Treater, Storer, Disposer (at installation) Note: A permit is required for this activity; see instructions.
4. Hazardous Waste Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketers
   - [ ] c. Burner - indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace
5. [ ] Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Markerer
   - [ ] c. Burner - indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace
2. [ ] Specification Used Oil Fuel Marketer (or On-site Burner) Who First Claims the Oil Meets the Specification

IX. Description of Regulated Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. EP Toxic (D000)	(List specific EPA hazardous waste number(s) for the EP Toxic contaminant(s))
X				

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1	2	3	4	5	6
F003					
7	**8**	**9**	**10**	**11**	**12**

C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)

1	2	3	4	5	6

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
[signature]	David S. DuBose - Area Dist Supv.	29 April 91

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

Reid, Michael

From: Reid, Michael
Sent: Monday, May 12, 2014 8:54 AM
To: 'Sproles, Barron {PBC}'
Subject: RE: ODEQ, Radiation Management - Permit No. XR253
Attachments: PepsiCo_XR253.pdf

Importance: High

Mr. Sproles,

Pepsi Beverages Company (Permit No. XR253), requested documentation is available on the attached PDF file. This attachment contains a file copy of the Permit and Cover Letter dated June 22, 2010.

If you have any questions please call (405) 702-5179.

Thank You

Michael T. Reid
OK Department of Environmental Quality
Land Protection Division
Radiation Management
707 N. Robinson Ave.
OKC, OK 73102
(405)702-5179
Fax (405)702-5101
michael.reid@deq.ok.gov

From: Sproles, Barron {PBC} [mailto:Barron.Sproles@pepsico.com]
Sent: Thursday, May 08, 2014 3:44 PM
To: Reid, Michael
Subject: RE: ODEQ, Radiation Management - Permit No. XR253

Thank you

From: Reid, Michael [mailto:michael.reid@deq.ok.gov]
Sent: Thursday, May 08, 2014 2:22 PM
To: Sproles, Barron {PBC}
Subject: ODEQ, Radiation Management - Permit No. XR253

Mr. Sproles,

Permit No. XR253 is not electronically documented and I will need to request the file from Central Records and will take some time due to priority requirements. Radiation Management will send this information by email with an attached scanned PDF document as a copy.

Please be advised that this information is required to be available on request at the company facility.

Oklahoma Administrative Code (Rules): http://www.deq.state.ok.us/rules/410.pdf

Michael T. Reid
OK Department of Environmental Quality
Land Protection Division
Radiation Management
707 N. Robinson Ave.
OKC, OK 73102
(405)702-5179
Fax (405)702-5101
michael.reid@deq.ok.gov

Coulter, Al

From: Jones.Buddy-M@epamail.epa.gov
Sent: Monday, December 12, 2005 8:50 AM
To: Coulter, Al
Subject: DELETION COMPLETED FOR OKD981610546

Buddy Jones
U.S.EPA Region 6 (6PD-M)
RCRAInfo Regional System Administrator
(214)665-8163
jones.buddy-m@epa.gov

THE PEPSI BOTTLING GROUP

To: Oklahoma Department of Environmental Quality, Land Protection Division
ATTN: Jon Roberts

From: Christina Kearns, Pepsi Bottling Group, LLC - Tulsa, OK

CC: Carole Hamner, Pam Tibbetts

Date: December 2, 2005

Re: Cancellation of duplicate EPA ID number

RECEIVED
DEC 0 9 2005
Land Protection Division
Department of Environmental Quality

Dear Mr. Roberts:

In a telephone conversation on November 18, 2005, Carole Hamner, PBG Environmental Manager, and Al Colter with OK DEQ, discussed the issue we at Bottling Group, LLC have in regard to our facility in Tulsa. The facility is currently operating with two EPA ID numbers. Specifically, the numbers we are using are:

- OKR000003608 – Pepsi Cola Company at 510 W. Skelly Drive in Tulsa, OK 74107
- OKD981610546 – Beverage Products Company at 5202 S. Houston in Tulsa, OK 74157

We believe the second number for Beverage Products Company was never updated to reflect the change in ownership, and we mistakenly applied for a second EPA ID number using the Skelly Drive address. The reason there are two different addresses is because our facility has two entrances, one on S. Houston, and one on Skelly Drive.

According to Al Colter, we may not be able to cancel either number, but instead, one will remain as a reference to the other in your state RCRA database. Mr. Colter said we should keep number OKR000003608 active, since we have had an inspection from the DEQ under that number. Therefore, we ask that OKD981610546 be cancelled, or referenced to the OKR number.

Our waste streams consist of small amounts of waste ink, and some fluids from our fleet maintenance shop.

I am attaching EPA Form 8700-12 to request a name change for OKR000003608. We are the Bottling Group, LLC, not the Pepsi Cola Company. Please let me know if you need any other information or have questions.

Sincerely,

Christina Kearns

Christina Kearns
Production Manager
510 W. Skelly Drive
Tulsa, OK 74107
918.445.8011

THE PEPSI BOTTLING GROUP

To: Oklahoma Department of Environmental Quality, Land Protection Division
ATTN: Jon Roberts

From: Christina Kearns, Pepsi Bottling Group, LLC - Tulsa, OK

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Sincerely,

Christina Kearns

Christina Kearns
Production Manager
510 W. Skelly Drive
Tulsa, OK 74107
918.445.8011

OMB#: 2050-0028 Expires 1/31/2006

SEND COMPLETED FORM TO: The Appropriate State or EPA Regional Office.

United States Environmental Protection Agency

RCRA SUBTITLE C SITE IDENTIFICATION FORM

RECEIVED DEC 09 2005 Land Protection Division Department of Environmental Quality

1. Reason for Submittal (See instructions on page 13.)

MARK ALL BOX(ES) THAT APPLY

Reason for Submittal:

- ☐ To provide Initial Notification of Regulated Waste Activity (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities)
- ☐ To provide Subsequent Notification of Regulated Waste Activity (to update site identification information)
- ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application
- ☒ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #_____)
- ☐ As a component of the Hazardous Waste Report

2. Site EPA ID Number (page 14)

EPA ID Number: OKR000003608

3. Site Name (page 14)

Name: PEPSI COLA COMPANY → HAS CHANGED TO [redacted] BOTTLING GROUP, LLC

4. Site Location Information (page 14)

Street Address: 510 W. SKELLY DRIVE

City, Town, or Village: TULSA [redacted] State: OK

County Name: TULSA Zip Code: 74107

5. Site Land Type (page 14)

Site Land Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

6. North American Industry Classification System (NAICS) Code(s) for the Site (page 14)

A. 311111 B.

C. D.

7. Site Mailing Address (page 15)

Street or P. O. Box: SAME AS ABOVE

City, Town, or Village:

State:

Country: Zip Code:

8. Site Contact Person (page 15)

First Name: CHRISTINA MI: Last Name: KEARNS

Phone Number: (918) 445-8011 Extension: Email address: christina.kearns@pepsi.com

9. Operator and Legal Owner of the Site (pages 15 and 16)

A. Name of Site's Operator: BOTTLING GROUP, LLC Date Became Operator (mm/dd/yyyy): 01/06/1999

Operator Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

B. Name of Site's Legal Owner: BOTTLING GROUP, LLC Date Became Owner (mm/dd/yyyy): 01/06/1999

Owner Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

EPA ID NO: 0 KR 0 0 0 0 0 3 6 0 8

OMB#: 2050-0028 Expires 1/31/2006

9. Legal Owner (Continued) Address	Street or P. O. Box: SAME AS ABOVE	
	City, Town, or Village:	
	State:	
	Country:	Zip Code:

10. Type of Regulated Waste Activity
Mark "Yes" or "No" for all activities; complete any additional boxes as instructed. (See instructions on pages 17 to 20.)

A. Hazardous Waste Activities
Complete all parts for 1 through 6.

Y ☒ N ☐ **1. Generator of Hazardous Waste**
If "Yes", choose only one of the following - a, b, or c.

- ☐ a. LQG: Greater than 1,000 kg/mo (2,200 lbs./mo.) of non-acute hazardous waste; or
- ☐ b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or
- ☒ c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

In addition, indicate other generator activities.

Y ☐ N ☒ d. United States Importer of Hazardous Waste

Y ☐ N ☒ e. Mixed Waste (hazardous and radioactive) Generator

Y ☐ N ☒ **2. Transporter of Hazardous Waste**

Y ☐ N ☒ **3. Treater, Storer, or Disposer of Hazardous Waste (at your site)** Note: A hazardous waste permit is required for this activity.

Y ☐ N ☒ **4. Recycler of Hazardous Waste (at your site)**

Y ☐ N ☒ **5. Exempt Boiler and/or Industrial Furnace**
If "Yes", mark each that applies.
- ☐ a. Small Quantity On-site Burner Exemption
- ☐ b. Smelting, Melting, and Refining Furnace Exemption

Y ☐ N ☒ **6. Underground Injection Control**

B. Universal Waste Activities

Y ☐ N ☒ **1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. If "Yes", mark all boxes that apply:**

	Generate	Accumulate
a. Batteries	☐	☐
b. Pesticides	☐	☐
c. Thermostats	☐	☐
d. Lamps	☐	☐
e. Other (specify) _____	☐	☐
f. Other (specify) _____	☐	☐
g. Other (specify) _____	☐	☐

Y ☐ N ☒ **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities
Mark all boxes that apply.

Y ☐ N ☒ **1. Used Oil Transporter**
If "Yes", mark each that applies.
- ☐ a. Transporter
- ☐ b. Transfer Facility

Y ☐ N ☒ **2. Used Oil Processor and/or Re-refiner**
If "Yes", mark each that applies.
- ☐ a. Processor
- ☐ b. Re-refiner

Y ☐ N ☒ **3. Off-Specification Used Oil Burner**

Y ☐ N ☒ **4. Used Oil Fuel Marketer**
If "Yes", mark each that applies.
- ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
- ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

EPA ID NO: 0 1 K R 1 0 1 0 1 0 1 0 3 1 6 1 0 8 1 OMB#: 2050-0028 Expires 1/31/2006

11. Description of Hazardous Wastes (See instructions on page 21.)

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D001						
D002						

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

12. Comments (See instructions on page 21.)

REASON FOR SUBMISSION OF THIS FORM IS TO CORRECT NAME ON ID #: COMPANY NAME HAS CHANGED FROM PEPSI COLA COMPANY TO [redacted] BOTTLING GROUP, LLC.

ADDITIONALLY, PER INCLUDED LETTER, WOULD LIKE TO REFERENCE THE 2 (EPA ID #'s TO SAME FACILITY (BOTTLING GROUP, LLC)

13. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
For the RCRA Hazardous Waste Part A Permit Application, all operator(s) and owner(s) must sign (see 40 CFR 270.10 (b) and 270.11).
(See instructions on page 21.)

Signature of operator, owner, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
Christina Kearns	CHRISTINA KEARNS, PRODUCTION MANAGER	11/18/2005
Ray Newman	RAY NEWMAN PLANT MANAGER	11/18/2005

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

Please refer to Section V. Line-by-Line Instructions for Completing EPA Form 8700-12 before completing this form. The information requested here is required by law (Section 3010 of the *Resource Conservation and Recovery Act*).

Notification of Regulated Waste Activity

EPA United States Environmental Protection Agency

RECEIVED
Date Received
(For Official Use Only)
MAR 22 2001
Waste Management

04/6/01

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

☐ A. Initial Notification ☒ B. Subsequent Notification *(Complete item C)*

C. Installation's EPA ID Number: OKR000003608

II. Name of Installation *(Include company and specific site name)*

PEPSI COLA BOTTLING CO.

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 510 W SKELLY DR.

Street *(Continued)*:

City or Town: TULSA | State: OK | Zip Code: 74107-

County Code: TUL | County Name: TULSA

IV. Installation Mailing Address *(See instructions)*

Street or P.O. Box: SAME

City or Town: | State: | Zip Code: -

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name *(Last)*: COOPER | *(First)*: DANA

Job Title: SAFETY DIRECTOR | Phone Number *(Area Code and Number)*: 918-445-8163

VI. Installation Contact Address *(See instructions)*

A. Contact Address: Location ☒ Mailing ☐

B. Street or P.O. Box:

City or Town: | State: | Zip Code: -

VII. Ownership *(See instructions)*

A. Name of Installation's Legal Owner: PEPSI BOTTLING GROUP INC.

Street, P.O. Box, or Route Number: 1 PEPSI WAY

City or Town: SOMERS | State: NY | Zip Code: 10589-

Phone Number *(Area Code and Number)*: 914-767-6000

B. Land Type: P

C. Owner Type: O

D. Change of Owner Indicator: Yes ☐ ☒ No

Date Changed: Month | Day | Year

updated ownership

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to Instructions)*

A. Hazardous Waste Activities

1. Generator (See Instructions)
   - ☐ a. Greater than 1000kg/mo (2,200 lbs.)
   - ☐ b. 100 to 1000 kg/mo (220-2,200 lbs.)
   - ☒ c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - ☐ a. For own waste only
   - ☐ b. For commercial purposes

Mode of Transportation
- ☐ 1. Air
- ☐ 2. Rail
- ☐ 3. Highway
- ☐ 4. Water
- ☐ *5. Other - specify*

☐ 3. Treater, Storer, Disposer (at installation) Note: A permit is required for this activity, see instructions.

4. Exempt Boiler and/or Industrial Furnace
   - ☐ a. Smelting, Melting, and Refining Furnace Exemption
   - ☐ b. Small Quantity On-Site Burner Exemption

☐ 5. Underground Injection Control

B. Universal Waste Activity

☐ Large Quantity Handler of Universal Waste

C. Used Oil Management Activities

1. Used Oil Transporter/Transfer Facility - Indicate Type(s) of Activity(ies)
   - ☐ a. Transporter
   - ☐ b. Transfer Facility
2. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - ☐ a. Processor
   - ☐ b. Re-refiner

☐ 3. Off-Specification Used Oil Burner

4. Used Oil Fuel Marketer
   - ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Used Oil Burner
   - ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

IX. Description of Hazardous Wastes *(Use additional sheets if necessary)*

A. Listed Hazardous Wastes. *(See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)*

1	2	3	4	5	6
7	8	9	10	11	12

B. Characteristics of Nonlisted Hazardous Wastes. *(Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24; See instructions if you need to list more than 4 toxicity characteristic waste codes.)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic	(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s)) 1	2	3	4
☐	☐	☐	☐				

C. Other Wastes. *(State-regulated or other wastes requiring a handler to have an I.D. number; See instructions.)*

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title *(Type or print)*	Date Signed
Dana L Cooper	DANA COOPER / Safety Dir	3-19-01

XI. Comments

PBG of Tulsa is no longer a small quantity Generator

Note: Mail completed form to the appropriate EPA Regional or State Office. *(See Section IV of the booklet for addresses.)*

JW 9-11-97

RECEIVED
SEP
RECEIVED
AUG 21 1997
SECTION
Waste Management

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Please refer to the *Instructions for Filling Notification* before completing this form. The information requested here is required by law (Section 3010 of the *Resource Conservation and Recovery Act*).

EPA Notification of Regulated Waste Activity

United States Environmental Protection Agency

(For Official Use Only)

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

[X] A. First Notification [ ] B. Subsequent Notification *(Complete item C)*

C. Installation's EPA ID Number: OKR000036008

II. Name of Installation *(Include company and specific site name)*

PEPSI COLA BOTTLING CO

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 510 WEST SKELLY DRIVE

Street *(Continued)*:

City or Town: TULSA | State: OK | Zip Code: 74107-

County Code: | County Name: TULSA

IV. Installation Mailing Address *(See Instructions)*

Street or P.O. Box: same

City or Town: | State: | Zip Code: -

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name *(Last)*: TAHKUBBI | *(First)*: CHARLES

Job Title: MMGR | Phone Number *(Area Code and Number)*: 918-446-6601

VI. Installation Contact Address *(See Instructions)*

A. Contract Address Location [ ] Mailing [ ] Other [ ]

B. Street or P.O. Box:

City or Town: | State: | Zip Code: -

VII. Ownership *(See Instructions)*

A. Name of Installation's Legal Owner:

Street, P.O. Box, of Route Number:

City or Town: | State: | Zip Code: -

Phone Number *(Area Code and Number)*: - -

B. Land Type: | C. Owner Type: | D. Change of Owner Indicator: Yes [ ] No [ ] | (Date Changed) Month Day Year:

Modified 9/2/97

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

GSA No. 0246-EPA-OT

ID - For Official Use Only

Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes; Refer to Instructions)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - ☐ a. Greater than 1000kg/mo (2,200 lbs.)
   - ☑ b. 100 to 1000 kg/mo (200-2,200 lbs.)
   - ☐ c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - ☐ a. For own waste only
   - ☐ b. For commercial purposes

Mode of Transportation
- ☐ 1. Air
- ☐ 2. Rail
- ☐ 3. Highway
- ☐ 4. Water
- ☐ *5. Other - specify*

☐ 3. Treater, Storer, Disposer (at installation) Note: A permit is required for this activity; see instructions.

4. Hazardous Waste Fuel
   - ☐ a. Generator Marketing to Burner
   - ☐ b. Other Marketers
   - ☐ c. Boiler and/or Industrial Furnace
     - ☐ 1. Smelter Deferral
     - ☐ 2. Small Quantity Exemption

   Indicate Type of Combustion Device(s)
   - ☐ 1. Utility Boiler
   - ☐ 2. Industrial Boiler
   - ☐ 3. Industrial Furnace

☐ 5. Underground Injection Control

B. Used Oil Recycling Activities

1. Used Oil Fuel Marketer
   - ☐ a. Marketer Directs Shipment of Used Oil to Off-Specification Burner
   - ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications
2. Used Oil Burner - Indicate Type(s) of Combustion Device(s)
   - ☐ a. Utility Boiler
   - ☐ b. Industrial Boiler
   - ☐ c. Industrial Furnace
3. Used Oil Transporter - Indicate Type(s) of Activity(ies)
   - ☐ a. Transporter
   - ☐ b. Transfer Facility
4. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - ☐ a. Process
   - ☐ b. Re-refine

IX. Description of Hazardous Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. *(Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic	(List specific EPA hazardous waste number(s) for the Toxicity characteristic contaminant(s))
☐	☐	☐	☐	

B. Listed Hazardous Wastes. *(See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)*

1	2	3	4	5	6
D006	D008	D027	D039	D040	
7	8	9	10	11	12

C. Other Wastes. *(State or other wastes requiring a handler to have an I.D. number; See instructions.)*

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title *(Type or print)*	Date Signed
Charles Tokarski	Charles Tokarski/BBL Maintenance Manager	8-18-97

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. *(See Section III of the booklet for addresses.)*

OKR000003608

NEW NAME

Please print or type with ELITE type (12 characters per inch) in

Form Approved OMB No. 2050-0028 Expires 9-30-96
GSA No. 0245-EPA-OT

Please refer to the *Instructions for Filling Notification* before completing this form. The information requested here is required by law (Section 3010 of the *Resource Conservation and Recovery Act*).

EPA No

United St

ulated

RECEIVED
(For Official Use Only)
AUG 21 1997
Waste Management

I. Installation's EPA ID Number *(Mark 'X' in the appropri*

ation's EPA ID Number

☐ A. First Notification ☒ B. Subsequent No *(Complete Item C)*

OKD981610546

II. Name of Installation *(Include company and specific site name)*

PEPSI COLA BOTTLING CO

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street

510 WEST SKELLY DRIVE

Street *(Continued)*

City or Town

TULSA

State: OK

Zip Code: 74107-

County Code

County Name: TULSA

IV. Installation Mailing Address *(See Instructions)*

Street or P.O. Box

City or Town

State

Zip Code

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name *(Last)*: TAHKUBBI

(First): CHARLES

Job Title: MMGR

Phone Number *(Area Code and Number)*: 918-446-6601

VI. Installation Contact Address *(See Instructions)*

A. Contract Address Location ☐ Mailing ☐ Other ☐

B. Street or P.O. Box

City or Town

State

Zip Code

VII. Ownership *(See Instructions)*

A. Name of Installation's Legal Owner

Street, P.O. Box, of Route Number

City or Town

State

Zip Code

Phone Number *(Area Code and Number)*

B. Land Type

C. Owner Type

D. Change of Owner Indicator Yes ☐ No ☐

(Date Changed) Month Day Year

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

GSA No. 0246-EPA-OT

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes; Refer to instructions)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - [ ] a. Greater than 1000kg/mo (2,200 lbs.)
   - [x] b. 100 to 1000 kg/mo (200-2,200 lbs.)
   - [ ] c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - [ ] a. For own waste only
   - [ ] b. For commercial purposes

Mode of Transportation
- [ ] 1. Air
- [ ] 2. Rail
- [ ] 3. Highway
- [ ] 4. Water
- [ ] 5. Other - specify

3. [ ] Treater, Storer, Disposer (at Installation) Note: A permit is required for this activity; see instructions.
4. Hazardous Waste Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketers
   - [ ] c. Boiler and/or Industrial Furnace
     - [ ] 1. Smelter Deferral
     - [ ] 2. Small Quantity Exemption

   Indicate Type of Combustion Device(s)
   - [ ] 1. Utility Boiler
   - [ ] 2. Industrial Boiler
   - [ ] 3. Industrial Furnace
5. [ ] Underground Injection Control

B. Used Oil Recycling Activities

1. Used Oil Fuel Marketer
   - [ ] a. Marketer Directs Shipment of Used Oil to Off-Specification Burner
   - [ ] b. Marketer Who First Claims the Used Oil Meets the Specifications
2. Used Oil Burner - Indicate Type(s) of Combustion Device(s)
   - [ ] a. Utility Boiler
   - [ ] b. Industrial Boiler
   - [ ] c. Industrial Furnace
3. Used Oil Transporter - Indicate Type(s) of Activity(ies)
   - [ ] a. Transporter
   - [ ] b. Transfer Facility
4. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - [ ] a. Process
   - [ ] b. Re-refine

IX. Description of Hazardous Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. *(Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic	(List specific EPA hazardous waste number(s) for the Toxicity characteristic contaminant(s))
[ ]	[ ]	[ ]	[ ]	

B. Listed Hazardous Wastes. *(See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)*

1	2	3	4	5	6
D006	D008	D027	D039	D040	
7	8	9	10	11	12

C. Other Wastes. *(State or other wastes requiring a handler to have an I.D. number; See Instructions.)*

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title *(Type or print)*	Date Signed
Charles Tokarski	Charles Tokarski/Maintenance Manager	8-18-97

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. *(See Section III of the booklet for addresses.)*

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

EPA United States Environmental Protection Agency

Handler - Handler Search

RCRA Info

Enter the Handler Name, City and State you wish to search on:

Handler Name: %Pepsi%
Wildcard searches are allowed (i.e. %dupont%, auto%, etc.).

City: Tulsa
Wildcard searches are allowed (i.e. Ft%, %ville, etc.).

State: OK

Search **Cancel** **Clear**

Your search has found **1** handler(s).

Search Results

Act Loc	Handler Name	EPA Id	Street No.	Street Address	City	State	Zip Code	County	In a Universe
OK	PEPSI COLA BOTTLING CO	OKR000003608	510	W SKELLY DR	TULSA	OK	74107	TULSA	Y

Create New Handler

URL: /HANDLER2/Handler_srch.asp

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FEB 05 2016
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Exhibit 5 - Annual Comprehensive Site Compliance Evaluation Report - Part A

See Page 4 for Instructions

DEQ FORM 605-006	Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051569

Section II. Facility Operator Information

Name: Pepsi Beverages Company Phone: 918-445-8066

Address: 510 W. Shelby Dr.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Pepsi Beverages Company Phone: 918-445-8066

Address: 510 W. Shelby Dr

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 36.089244 Longitude: -95.997256

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Mike Valencia Date: 1/21/16

Signature: Title: Fac Mgr.

66R
5/3/16

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 2015.

✓ How many routine facility inspections did you perform during the reporting period? 12

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
11/11/15	Trash Around Compost	Y	11/16/15

✓ What must you do to correct the deficiencies that remain uncorrected?
Added to master cleanup school duty.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes ✓ No____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ____ No____ All BMPs were being implemented ✓

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ____ No____ No deficiencies noted in any inspection ✓

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ____ No____ All BMPs were effective ✓

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No____ All BMPs were being effective ✓

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ____ No ✓

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ____ No ✓

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No____ Permit applied for ____ No known illicit discharges ✓

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ____ No ✓

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ____ No ✓ no spills.

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred ✓

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ✓ No_____ No spills or leaks occurred ✓

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes _____ No_____ Number of Visual Monitoring 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No ✓

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified)

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No ✓

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No ✓

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FEB 12 2014
ECLS

Exhibit 5 - Annual Comprehensive Site Compliance Evaluation Report - Part A

See Page 4 for Instructions

DEQ FORM 605-006		Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.
OPDES Permit Authorization Number: OKR051569

Section II. Facility Operator Information
Name: PEPSI BEVERAGES COMPANY Phone: 918-445-8000
Address: 510 W. SKELLY DRIVE
City: TULSA County: OK Zip Code: 74107

Section III. Facility Location
Name: PEPSI BEVERAGES COMPANY Phone: 918-445-8000
Address: 510 W. SKELLY DRIVE
City: TULSA County: OK Zip Code: 74107
Latitude: N360517 Longitude: W955950

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: KEVIN KELSEY Date: 2/6/14
Signature: Title: PLANT DIRECTOR

ENTERED 2/25/14

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 2013 Year.

✓ How many routine facility inspections did you perform during the reporting period? 12

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
2/4/14	Debris near SW drain	Y	2/4/14
2/4/14	Leaking delivery tanker	N	
2/4/14	Dumpster outside - bring in	Y	2/5/14

✓ What must you do to correct the deficiencies that remain uncorrected?
Supplier to repair leaking tanker

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes X No____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ____ No____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ____ No X No deficiencies noted in any inspection ____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ____ No X All BMPs were effective ____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No____ All BMPs were being effective X

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No____ Permit applied for ____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes____ No____ N/A

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred X

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred X

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes \ No_____ Number of Visual Monitoring 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No X

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
(5) N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6.) N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No X

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes X No_____
Revise site map to reflect new warehouse construction and equipment.

See Reverse Side for Instructions

DEQ FORM 605-006
October 2, 2000

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions Included With This Form.

Section I.

OPDES Permit Authorization Number: OKR051569

Section II. Facility Operator Information:

Name: PEPSI BEVERAGES COMPANY Phone: 918-445-8000

Address: 510 W. SKELLY DRIVE

City: TULSA County: TULSA Zip Code 74107

III. Facility Location:

Name: PEPSI BEVERAGES COMPANY Phone: 918-445-8000

Address: 510 W. SKELLY DRIVE

City: TULSA County: TULSA Zip Code: 74107

Latitude: N360517 Longitude: W955950

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: KEVIN KELSEY Date: 10-26-12

Signature: Title PLANT DIRECTOR

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NOV 02 2012
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Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: SEPT 2011 - SEPT 2012

✓ How many routine facility inspections did you perform during the reporting period? _____

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
9/27/12	Uncovered dumpster	Y	10/2/12
9/27/12	Power pole changes on site	Y	10/2/12
9/27/12	Updated SWPPP to reflect title & power changes	Y	10/2/12

✓ What must you do to correct the deficiencies that remain uncorrected?

_____

_____

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes X No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes X No_____ All BMPs were being implemented _____

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No X No deficiencies noted an any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No X All BMPs were effective _____

✓ If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?
Yes _____ No X All BMPs were being effective _____

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No X Permit applied for _____ No known illicit discharges _____

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?
Yes _____ No _____ N/A X

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NOV 02 2012
ECLS

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred X

✓ Have all known spills or leaks been cleaned up or otherwise prevented form contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred X

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1.1 - Quarterly visual Monitoring)
Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No X

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMP.
3. Added new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ N/A X

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

RECEIVED
NOV 02 2012
ECLS

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

April 12, 2007

SHANNON BARRETT
PEPSI BOTTLING GROUP
510 WEST SKELLY DR
TULSA, OK 74107

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number OKR051569

Dear SHANNON BARRETT:

The new Notice of Intent (NOI) for the facility listed below was received on April 9, 2007 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in TULSA County.

Facility: PEPSI BOTTLING GROUP
510 WEST SKELLY DR
TULSA, OKLAHOMA

THIS FACILITY DISCHARGES INTO A 303(d) LISTED STREAM.
This Facility Discharges to an Aquatic Resource of Concern.

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2007 will be invoiced for the full permit year (July 1, 2007 – June 30, 2008).

If you have any questions regarding this permit or the Storm Water Program, please call Matt Pace of the Environmental Complaints and Local Services Division at (405) 702-6222.

Sincerely,

Matt Pace
Storm Water Unit
Environmental Complaints and Local Services

Enclosure
c: Rick Austin, DEQ Regional Manager
Regional Office at Tulsa
Scott Van Loo, NPDES Coordinator, City of Tulsa

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. OKR051569

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O. S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

PEPSI BOTTLING GROUP
510 WEST SKELLY DR
TULSA, OK 74107

Is authorized to discharge storm water from an Industrial site located in TULSA County at:

PEPSI BOTTLING GROUP
510 WEST SKELLY DR
TULSA, OKLAHOMA

The receiving body of water is MOOSER CREEK.
THIS FACILITY DISCHARGES INTO A 303(d) LISTED STREAM.
This Facility Discharges to an Aquatic Resource of Concern.
The OPDES requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your Industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.

The Authorization shall become effective April 12, 2007 and will expire at midnight on May 2, 2011.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on May 3, 2006, shall apply to the recipient of this authorization.

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mark Derichsweiler, P. E., Engineering Manager
Watershed Planning and Toxics Control Section,
Water Quality Division

See Reverse Side for Instructions

OPDES FORM 605-002B		Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☐ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK_____

I. Facility Owner/Operator Information

Name: PEPSI BOTTLING GROUP Phone: (918) 445-8000

Mailing Address: 510 WEST SKELLY DRIVE Status of Owner/Operator: P

City: TULSA State: OK Zip Code: 74107 -

II. Site Information

Name of the Facility: PEPSI BOTTLING GROUP

Location of the Facility: 510 WEST SKELLY DRIVE

City: TULSA Zip Code: 74107 -

Latitude: N36 05 17 Longitude: W 95 59 50 County: TULSA

III. Facility Activity

MS4 Operator: CITY OF TULSA

Receiving Water Body: MOOSER CREEK

Is the receiving water body on the DEQ 303(d) impaired water list? ☒ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 2086 Sector: U Secondary : _____ Sector: _____

Are you required to submit Numeric Effluent Discharge Monitoring Reports (DMRs)? NO (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☐ My facility is not located in Federal or State sensitive waters or watersheds.

b. ☒ My facility is located in Federal or State sensitive waters or watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

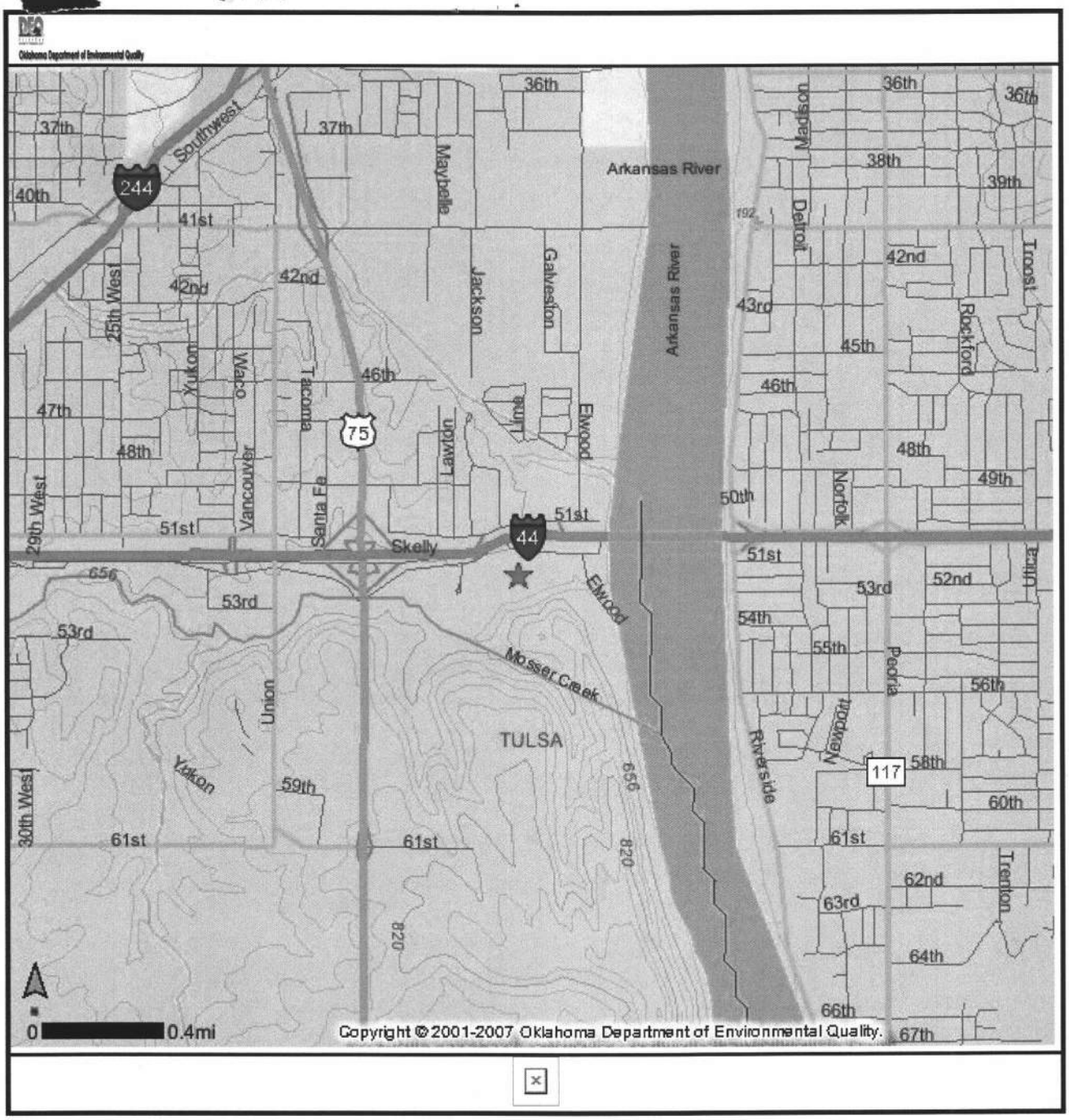
I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: SHANNON BARRETT Date: 4/6/07

Signature _____ Title: PRODUCTION MGR

For DEQ use Only: Assigned Authorization Number: OKR05 1569

-8141


Oklahoma Department of Environmental Quality
Arkansas River
Southwest
244
75
44
117
TULSA
Mosser Creek
Skelly
Elwood
Lawton
Lime
Galveston
Jackson
Maybelle
Madison
Detroit
Norfolk
Riverside
Newport
Pedria
Rockford
Troost
Utica
Trenton
Union
Yukon
Waco
Vancouver
Tacoma
Santa Fe
25th West
29th West
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461985

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. BOX 2036
OKLAHOMA CITY, OK 73101

RECEIVED
ADMINISTRATIVE SERVICES
2008 DEC 11 A 11:03

INVOICE

PEPSI BOTTLING GROUP
SHANNON BARRETT
510 WEST SKELLY DR
TULSA, OK 74107

Invoice Number: 55166200
Invoice Date: 11/21/2008
Due Date: 1/5/2009

STATE OF OKLAHOMA - 2009 STORM WATER RENEWAL

PERMIT AUTHORIZATION #: OKR051569
BEGINNING DATE: 7/1/2008 **ENDING DATE:** 6/30/2009
FACILITY SITE NAME: PEPSI BOTTLING GROUP

SITE ADDRESS: 510 WEST SKELLY DR

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NOV 25 2008

SITE COUNTY: TULSA
PERMIT TYPE: INDUSTRIAL

General Storm Water Permit authorizations and annual fees are governed by OAC 252 Chapter 606, Appendix D. If you have questions regarding the calculations of this invoice, please contact the Storm Water Unit at 405-702-6100.

DEQ's FEI # is 73-6017987
DEQ's Fax # is 405-702-7101 or 405-702-7120

Sub Total	$254.21
Fee Adjustments	-4.21
Total Fee	$250.00
Less Payments Received	
Plus Returned Checks	
Balance Due	$250.00
Plus Late Fee	
Total Due	$250.00
Plus Refunds	
PAY THIS AMOUNT	**$250.00**

KEEP

DETACH HERE

Invoice Number: 55166200 Amount Due: 250.00
200/59037/22228

PEPSI BOTTLING GROUP
510 WEST SKELLY DR
TULSA, OK 74107

SEND

Please Choose One Form of Payment

- ☐ Check Made Payable to DEQ
- ☐ Money Order Made Payable to DEQ
- ☑ Visa or Mastercard No.: 5405390000089333 4

Exp. (mm/yy) 0409 689894

Authorized Signature

DEPARTMENT OF ENVIRONMENTAL QUALITY
ADMINISTRATIVE SERVICES - ACCOUNTS RECEIVABLE
P.O. BOX 2036
OKLAHOMA CITY, OK 73101-2036

- ☐ Electronic Payment: Date of Transfer _____
  Bank One; Routing #103000648 Account #10020052
- ☐ Purchase Order No.: _____

Revised 1/15/03

DEQ Form # 002-014

Billing Dept.

Can you please remove Shannon Barrett's name from billing & replace it with:

Nate Mulhern

Thank you

Dianne Fessler
Pepsi Bottling
918-445-8014

IMAGED
APR 29 2010
DEQ CENTRAL RECORDS

April 28, 2010

PEPSI BOTTLING GROUP
PEPSI BOTTLING GROUP
510 WEST SKELLY DR
TULSA, OK PEPSI BOTTLING GROUP

Invoice #: 55169993
Permit Authorization #: OKR051569
Amount Owed: **$360.94**

COLLECTION NOTICE

Dear PEPSI BOTTLING GROUP:

The Department of Environmental Quality previously issued the enclosed invoice to you for the above stated amount. This invoice was for the 2010 Storm Water Renewal Fee assessed to you for the Storm Water Permit Authorization # **OKR051569.** As of today, the Department has not received the payment for this fee.

COPY

Please mail your payment with the bottom portion of the attached invoice in the enclosed envelope within THIRTY (30) DAYS to avoid having this debt forwarded to the Legal Department for further collection. If you feel you received this notice in error, please contact Kelsey Akin at (405) 702-6116 or Kelsey.Akin@deq.ok.gov.

Failure to pay this invoice may prevent the issuance of future authorizations. In accordance with 252:4-7-15(b), the DEQ may not issue a new, modified or renewed permit or other authorization if you have not paid all monies owed to the DEQ.

Thank you for your cooperation in this matter.

Sincerely,

Matt Pace

Matt Pace, Program Manager
Storm Water Unit
Environmental Complaints and Local Services

Enclosure(s)

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mailing Address:
Department of Environmental Quality
Administrative Services - Accounts Receivable
P O Box 2036
Oklahoma City, OK 73101
405-702-0100

REFUND

Date: 12/27/2012

To: Administrative Services

From: ECLS
SARAH LESSIG
(405)702- 1081

Refund amount: $340.56

Refund to: PEPSI BEVERAGES CO
510 WEST SKELLY
TULSA, OK 74107

Reason for refund:
Return of tendered fee OKRD51569
DUPLICATE OF INVOICE 55181199

DEPT OF ENV QUALITY
707 NORTH ROBINSON
OKLAHOMA CITY OK 73102
405-702-7123

TERMINAL ID : 79834379
MERCHANT #: 430134570191020
MASTERCARD SRV : 47
**********8343 *
REFUND
BATCH: 000845
INVOICE: 181200
JAN 14, 13 17:21

TOTAL -$340.56

THANK YOU

Invoice No.: 55181200
Receipt No.: 548982
Amount Received: $340.56
Date Received: 11/8/2012
Form of Payment: Credit Card
[redacted]*8343 0114
Est. Acct. NO.:
Fund: 200
Sub-activity: 59037
Receipt Source: 22228

MISTY JOHNSON
Refund requested by:

Refund approved by:

ADM USE ONLY
Warrant No.:
DE 1/14/13
Date Issued:
549964

DEQ #640-598
Revised 11/18/99

CC 8189 10/11/11 Amm $430.00 RECEIVED SEP 29 2011 DEQ ECLS

See Reverse Side for Instructions

OPDES FORM 605-002B	DEQ OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY	**Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05**

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☐ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK

I. Facility Owner/Operator Information

Name: PEPSI BEVERAGES COMPANY Phone: (918) 445-8000

Mailing Address: 510 WEST SKELLY DRIVE Status of Owner/Operator: P

City: TULSA State: OK Zip Code: 74107 - Email Address:

II. Site Information

Name of the Facility: PEPSI BEVERAGES COMPANY

Location of Facility: 510 WEST SKELLY DRIVE

City: TULSA Zip Code: 74107 -

Latitude: N36 05 17 Longitude: W95 59 50 County: TULSA

III. Facility Activity

35-19N-12E

MS4 Operator: CITY OF TULSA

Receiving Water Body: MOSSER CREEK

Is the receiving water body on the DEQ 303(d) impaired water list? ☒ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 2086 Sector: U Secondary : Sector:

Is your SWP3 developed? ☒ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? N (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☐ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☒ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: KEVIN KELSEY Date: 9-27-11

Signature: Title: PLANT DIRECTOR

For DEQ use Only: Assigned Authorization Number: OKR05 1569

11-01160 (3.79 mi)

Instructions - DEQ Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity to be Covered Under the OPDES General Permit OKR05

Who Must File A Notice Of Intent Form

Federal law at 40 CFR Part 122 as adopted by reference in OAC 252:606 1-3 (b)(3) prohibits point source discharges of storm water associated with industrial activity to a water body(ies) of the US without an Oklahoma Pollutant Discharge Elimination System (OPDES) permit. If you have questions about whether you need a permit under the OPDES Storm Water program, or if you need information, write to the address listed below or telephone the Environmental Complaints & Local Services, Department of Environmental Quality (DEQ), at (405) 702-6100 and ask for the Storm Water Program.

Where to File a NOI Form

NOIs must be sent to the following address:

DEQ/Environmental Complaints & Local Services
P.O. Box 1677
Oklahoma City, OK 73101-1677
Fax: (405)702-6226

Completing the Form

You must type or print, using upper-case letters, in the appropriate areas only. If you have any questions on this form, call DEQ-ECLS at (405) 702-6100 and ask for the Storm Water Program.

Section I. Facility Owner/Operator Information

Check the appropriate box if you are filing a new NOI, or you are updating your current NOI. Enter your current or previous permit authorization number, if any. Provide the legal name, mailing address, email address if any, and telephone number of the person, firm, public organization, or any other entity that either individually or together meets the following two criteria: (1) have operational control over the facility; and (2) have the day-to-day operational control of those activities at the facility necessary to ensure compliance with plan requirements and permit conditions. Do not use a colloquial name.

Enter the appropriate letter to indicate the legal status of the operator of the facility: F = Federal; S = State; M = Municipal or Public (other than Federal or State); P = Private.

Section II. Site Information

Enter the facility's official or legal name and complete street address, including city, county, state, and ZIP code and phone number. If the site lacks a street address, indicate with a general statement the location of the site (e.g., Intersection of State Highways 61 and 34). The applicant must also provide the latitude and longitude of the facility in degrees, minutes, and seconds to the nearest 15 seconds.

The latitude and longitude of your facility may be located on USGS quadrangle maps. The quadrangle maps can be obtained at 1-888-ASK-USGS. Longitude and latitude may also be obtained from the DEQ's website at: http://maps.deq.ok.gov/deq_wq/

Section III. Facility Activity Information

If the storm water discharges to a Municipal Separate Storm Sewer System (MS4), enter the name of the operator of the MS4. A MS4 is defined as a conveyance or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains, that are owned or operated by a state, city, town, borough, parish, district, association, or other public body which is designed or used for collecting or conveying storm water.

If the facility discharges storm water directly to receiving waters, enter the name of the nearest named receiving water body.
Check appropriate box if the receiving water body is listed as the DEQ 303(d) impaired water.
Enter the primary and secondary SIC Code and respective Sector(s). For industrial activities defined in 40 CFR 122.26(b)(14)(I)-(x) that do not have SIC codes that accurately describes the principal product use the following two character codes:
HZ = Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under subtitle C of RCRA (40)CFR 122.26(b)(14)(iv);
SE = Steam electric power generating facilities, including coal handling sites (40 CFR 122.26 (b)(14)(vii);
TW = Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage (40 CFR 122.26(b)(14)(ix);
LF = Landfills and open dumps that receive industrial waste from any facility described in this subsection (40 CFR 122.26(b)(14)(v), as adopted by reference in OAC 252:606 1-3 (b)(3)(L);

Indicate if your industrial facility is required to collect storm water samples for analysis and submit Discharge Monitoring Reports for Numerical Effluent Limitations. Refer to the permit for information on monitoring requirements. Indicate the monitoring status by entering Yes or No in the appropriate space.

Complete the section on Endangered Species Eligibility by checking the appropriate box:

a. Your facility is not located in Federal and State sensitive waters and watersheds as identified on the map.

b. Your facility is located in Federal and State sensitive waters and watersheds and you agree to implement the control measures specified in Step 2.

c. You are relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

Section IV. Certification

Federal Statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means:(i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental law and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents had been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner of the proprietor, or;

For a municipality, state, Federal, or other public facility: by either a principal executive or ranking elected official.

PLEASE MAKE SURE YOU ACQUIRE A COPY OF THIS PERMIT AND READ ALL TERMS AND CONDITIONS.

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Industrial Storm Water Fee Statement

2929552012

Attach the completed Notice of Intent (NOI) with this statement.

Complete the information below and send payment to the address listed on the bottom of this statement. Incomplete or incorrect applications may be returned. Please contact the ECLS Storm Water Unit at (405) 702-6100 if you have any questions about the fee amounts.

Fee Amount

Application Fee *(100995)*	***$100***
Annual Permit Fee *(100055)*	***$330***
Total Fee	***$430***

Identify the method of payment

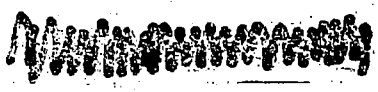
Please choose form of payment. Authorization will not be issued without payment.		
□ Check enclosed	*Made payable to DEQ*	Check #
□ Money order enclosed	*Made payable to DEQ*	Money order #
□ Purchase order		P.O. #
☒ Credit card (Visa or Mastercard)	Signature [signature]	
Expiration date: 1/14	Credit card #: [redacted] 8189	

Submit documents and payment to:

NOI must be included with this request form.

Department of Environmental Quality
Environmental Complaints and Local Services
PO Box 1677
Oklahoma City, OK 73101-1677
Or: Fax to (405) 702-6226 (credit card payments only)

DEQ use only			
Date Received:	Entered by:	OKR05 Number:	Date to finance:



See Reverse Side for Instructions

DEQ FORM 605-006
October 2, 2000

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions Included With This Form.

Section I.
OPDES Permit Authorization Number: OKR051569

Section II. Facility Operator Information:
Name: PEPSI BEVERAGES COMPANY Phone: 918-445-8000
Address: 510 WEST SKELLY DRIVE
City: TULSA County: TULSA Zip Code 74107

III. Facility Location:
Name: PEPSI BEVERAGES COMPANY Phone: 918-445-8000
Address: 510 WEST SKELLY DRIVE
City: TULSA County: TULSA Zip Code: 74107
Latitude: N360517 Longitude: W955950

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: KEVIN KELSEY Date: 9-27-11
Signature: [signature] Title PLANT DIRECTOR

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: Sept 2010 - Sept 2011.

✓ How many routine facility inspections did you perform during the reporting period? 12

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
9/23/11	City storm flume needs repair	N	emailed city 9/22
9/23/11	Update SWPPP to reflect team membership changes	Y	9/23/11

✓ What must you do to correct the deficiencies that remain uncorrected?

Currently in conversation with city regarding storm flume.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?

Yes X No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?

Yes _____ No_____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?

Yes _____ No X No deficiencies noted an any inspection X

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?

Yes _____ No_____ All BMPs were effective X

✓ If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?

Yes _____ No_____ All BMPs were being effective X

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?

Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?

Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?

Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?

Yes _____ No_____ N/A X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X__

✓ Have all known spills or leaks been cleaned up or otherwise prevented form contaminating storm water that would be discharged under the authority of this permit?
Yes _____No_____ No spills or leaks occurred__X__

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1.1 - Quarterly visual Monitoring)
Number_____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____No__X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMP.
3. Added new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____No__X__ N/A

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

September 6, 2011

SHANNON BARRETT
PEPSI BOTTLING GROUP
510 WEST SKELLY DR
Tulsa, OK 74107

Dear SHANNON BARRETT:

Re: PEPSI BOTTLING GROUP
OKR051569

The General Permit for Storm Water Associated with Industrial Activities (OKR05) expired on May 2, 2011 and will be reissued on September 5, 2011. Active facilities with authorizations issued under the previous OKR05 have until December 5, 2011 to become compliant with and obtain authorization under the new permit. For facilities where operations have ceased and there are no longer discharges of storm water a Notice of Termination (Form 605-003) must be submitted.

Enclosed are a new Notice of Intent (NOI) and a Storm Water Fee Statement. The fee statement indicates the fee amounts associated with the industrial storm water permit, and the payment options. Fee payments may be submitted along with the request form. Those not submitting fees will be invoiced at a later date. The completed NOI and Fee Statement may be submitted to:

Department of Environmental Quality
Attention: ECLS Storm Water Unit
PO Box 1677
Oklahoma City, OK. 73101-1677
or fax to (405) 702-6226 (credit card payments only)

Facilities located within any corridor/area of Federal and State sensitive waters and watersheds for listed species (Exhibit 1 in the MSGP), as defined by the U.S. Fish & Wildlife Service (USFWS) and Oklahoma Department of Wildlife Conservation (ODWC), must submit a complete SWP3 to ODEQ with the NOI submittal.

For more information about the reissued general permit and forms please visit our website at:

http://www.deq.state.ok.us/WQDnew/stormwater/msgp/index.html

If you have any questions, please contact the Storm Water Unit at (405) 702-6100.

Thank you for your cooperation,

Environmental Complaints and Local Services Division
Storm Water Unit

OKR05I569

Pepsi Beverages Company Amber

Industrial SWPPP Checklist

10/11/11

Pollution Prevention Team (Part 4.2.1)

Page 3 & Table 1 Identify the staff individual(s) by name or title.

Site Description (Part 4.2.2)

Page 4 Description of Activities

✓ General Location Map

✓ Legible Site Map identifying the following:

- ✓ The size of the property in acres 45 acres
- ✓ The location of significant structures and impervious surfaces
- ✓ Directions of storm water flow
- ✓ Locations of all existing structural BMPs
- ✓ Locations of surface waters on or adjacent to the facility, indicating if any of the waters are impaired and, if so, whether the waters have TMDL's established for them
- ✓ Locations of all storm water conveyances including ditches, pipes, and swales
- ✓ Locations of potential pollutant sources and where significant materials are exposed to storm water
- ✓ Locations of where significant spills or leaks have occurred
- ✓ Locations of all storm water monitoring points, if any
- ✓ Municipal Separate Storm Sewer Systems, where your storm water discharges to them
- ✓ Locations of storm water inlets and outfalls indicating if you are treating one or more outfalls as "substantially identical" and an approximate outline of the area draining to each outfall
- ✓ Location and description of all non-storm water discharges
- ✓ Locations of where the following are located and exposed: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail lines used by carriers of materials/products; the location of any transfer area for substance in bulk; and machinery
- ✓ Location and source of run-on to your site from adjacent property that contains significant quantities of pollutants

Page 4 **Name of Receiving waters (Part 4.2.3)**

Page table 2 **Potential Pollutant Sources (Part 4.2.4):** Identify areas at your facility where industrial materials or activities are exposed to storm water and for each separate area identify the following:

pg 8 - 16

- o Activities in the area
- o Pollutants

pg 10 Page table 3 **Potential Spills and Leaks (Part 4.2.5)**

Page ✓ **Sampling Data (Part 4.2.6)**

Page 11 **BMP Types to be Considered (Part 4.2.8)**

- Non-Structural BMPs
  - Good Housekeeping
  - Minimizing Exposure
  - Preventive Maintenance
  - ✓ Spill Prevention & Response
  - Routine Facility Inspections
  - Employee Training
- Structural BMPs
  - Sediment & Erosion Control
  - Management of Runoff

Page 11 **Other Controls (Part 4.2.9)**

- Waste, Garbage, Floatables not discharged
- Off-site Tracking
- Velocity Dissipation
- Location of any storage piles containing salt, may need to be enclosed or covered

Page 13 **Maintenance (Part 4.2.10)**

Page 5-7 **Allowable Non-Storm Water Discharges (Part 4.2.11)**

- Identification of each allowable non-storm water source
- The location where it is likely to be discharged
- Descriptions of appropriate BMPs for each source

Page N/A **Certification of Non-Storm Water Discharges (Part 4.2.12)**

- The date of any testing and/or evaluation
- Identification of potential significant sources of non-storm water at the site
- The actions taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified.
- A description of the results of any test and/or evaluation for the presence of non-storm water discharges
- A description of the evaluation criteria or testing method used
- A list of the outfalls or onsite drainage points that were directly observed during the test

not signed

Page 27 **Certification of the SWP3 (Part4.2.13)**

Page ____ **Documentation of Permit Eligibility related to TMDL (Part 4.214)**

Page 17-18 **Documentation of Permit Eligibility related to Endangered Species (Part 4.2.15)**

- Information on Threatened or Endangered Species or Critical Habitat
- Determine if Your Facility is Within a Sensitive Water or Watershed
- Document the Results of Your Screening
- Describe the Protection Measures Required
  - ✓ Pollutants such as oil, grease, solid waste, human waste, hazardous or other material not authorized for discharge under the permit must be properly captured, treated, and correctly disposed of
  - ✓ NELM Monitoring
  - ✓ Schedule of Inspections
  - ✓ Emergency Spill Plan

Page ✓ **Comprehensive Site Compliance Evaluation (Part 4.2.17)**

Page 19-21 **Applicable State or Local Plans (Part 4.3)**

Page 24 **Maintaining Updated SWP3 (Part 4.4)**

OKR05 5569

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

October 13, 2011

Kevin Kelsey
Pepsi Beverages Company
510 West Skelly Drive
Tulsa, OK 74107

RE: Storm Water Pollution Prevention Plan
Pepsi Beverages Company

Dear Kevin Kelsey:

The storm water pollution prevention plan (SWP3) submitted for the above-referenced industrial facility is incomplete. Based on the review of our staff, the SWP3 does not meet one or more of the minimum requirements listed in Part 4 of the OKR05 General Permit. Please submit to our office a revised SWP3 that addresses the following deficiency (ies) within seven (7) working days, **October 20, 2011**.

1. The certification statement on page 27 is not signed.
2. Documentation of permit eligibility related to impaired waters. Please note that the facility discharges into an impaired water and the requirements outlined in Part 4.214 of the OKR05 General Permit must be implemented.

Once the complete and revised SWP3 is received by our office, the DEQ reserves the right to further review the completeness of your application and request additional information if necessary. DEQ will not issue an authorization without the requested information. Please note, discharges that occur without coverage under the General Permit for Industrial Activities (OKR05) are in violation.

Information not received by the indicated deadlines or non-responsiveness to our request may result in your application being referred for enforcement.

If you have any questions, please contact me at (405) 702-6167.

Sincerely,

Amber McIntyre

Amber McIntyre
Environmental Programs Specialist

printed on recycled paper with soy ink

11061303

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Gp

Mailing Address: 3701 So Zero St City Ft Smith State Ark Zip 72908

Point of Generation Address: 3511 E 20TH City Joplin State Mo Zip

Generator Contact: Jack Shields Title Agent Telephone (918) 585-2021

DETAILED WASTE DESCRIPTION

Waste Name: Solid waste contaminated with hydrocarbons

If waste was generated out-of-state, is it classified as hazardous in the state of origin? [ ] Yes [ ] No [ ] NA- Okla. waste

Approximate amount of waste to be disposed: 350

[ ] Tons [ ] Pounds [ ] One-time [ ] Weekly [ ] Solid [ ] Liquid
[ ] Cubic yards [ ] Drum [ ] Monthly [ ] Annually [ ] Sludge [ ] Combination
[ ] Other

Disposal frequency:

Physical characteristics:

Method used to determine waste is non-hazardous: [ ] Analysis [ ] Generator knowledge [ ] Both

Process generating waste (be specific and use additional sheets if necessary):

Tornado Impacted Facility Releasing Diesel Fuel to Area

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Jack Shields
Generator Signature

JACK SHIELDS — Agent — 6-9-11
Printed name — Title — Date

Adopted June 2002 DEQ Form # 513-0[illegible]

918-245-7774 p.1

American Environmental Landfill, Inc.

"Leading the Industry in Environmental Compliance"

(MUST BE FILLED OUT COMPLETELY)

For more information, please call American Environmental Landfill, Inc. at (918)245-7786

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Grp
2. Site Location: 3511 E. 20TH ST
3. City: Joplin MO
   State: MO Zip Code:
4. Phone:
5. Fax:
6. State Waste Code:

B. CUSTOMER INFORMATION

1. Customer Name: Sooner Emergency
2. Address: 2131 So 49TH W. Ave
3. City: TULSA
   State: OK Zip Code: 74107
4. Phone: 918-583-2021
5. Fax: 918-585-2031
6. Contact: Jack Shields
7. Title: Agent

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Contaminated Soil
2. Detailed Decription of Process Generating Waste and Material Description: Tornado Impacted Facility Releasing Diesel Fuel to Soil

3. Industrial Generator: ■ Yes ☐ No
4. Municipal Generator: ☐ Yes ■ No
5. Physical State at 70°: ■ Solid ☐ Semisolid ☐ Liquid ☐ Powder ☐ Combination
6. Odor: ☐ Yes ■ No Describe:
7. Color: BLK
8. pH Range: 4-7
9. Flash Point:
10. Reactive ☐ Yes ■ No With:
11. Free Liquid: ☐ Yes ☐ No
12. Water content % by volume: <1%
13. Viscosity:
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35? ■ Yes ☐ No
15. Does the waste contain radioactive or U.S.D.O.T. hazardous waste materials? ☐ Yes ■ No

D. SUPPLEMENTAL INFORMATION

☐ None ☐ MSDS ☐ Analytical Data ☐ Process Knowledge Number of pages attached: 8

E. SHIPPING INFORMATION

1. Packaging: ☐ Bulk Liquid ■ Bulk Solid ☐ Drum ☐ Other
2. Estimated Volume: 350 ☐ Gallons ■ Yards ☐ Drums
   Shipping Frequency: one time
   Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste as defined by the USEPA 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

Jack Shields am employed by Sooner Emergency and am authorized to sign this request for Pepsi Bottling Grp (Company Name) (Signature) 6-9-11 (Date)

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:
Date: 6-10-11 ☐ Approved ☐ Rejected
Additional Information: NONE

Current WDA on file ☐ Yes ☐ No

Job #:

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

Tracy Fuson
Sooner Emergency Service, Inc
2244 No. 32nd St.
Muskogee, OK 74401
TEL: (918) 683-2936
FAX (918) 683-6001

June 08, 2011
Order No.: T11060058

RE: Pepsi

Dear Tracy Fuson:

Green Country Testing, Inc. received 3 samples on 6/3/2011 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analysis was conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604
AR - ADEQ
KS - E-10232
LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan

Approved By: For Brian Duzan, Director
Environmental Services

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7759

CLIENT: Sooner Emergency Service, Inc
Lab Order: T11060058 **Date Received:** 6/3/2011
Project: Pepsi **Date Reported:** 08-Jun-11

Lab ID: T11060058-01 Collection Date: 6/2/2011 2:10:00 PM Sample ID: 3511 E 15th S Ralloff 57821

Matrix: SOIL

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
BTEX IN SOIL BY GC		**SW8021B**				**SW**
Ethylbenzene	1.37	0.600		mg/Kg	6/3/2011	
Toluene	1.20	0.500		mg/Kg	6/3/2011	
Xylenes, Total	6.29	1.80		mg/Kg	6/3/2011	
Surr: 4-Bromofluorobenzene	80.0	52.6-174		%REC	6/3/2011	
Surr: Trifluorotoluene	88.0	41.8-152		%REC	6/3/2011	
BTEX IN SOIL BY GC/MS		**SW8260B**				**BD**
Benzene	< 0.022	0.022		mg/Kg	6/7/2011	
Surr: 4-Bromofluorobenzene	94.1	49-121		%REC	6/7/2011	
Surr: Dibromofluoromethane	132	62-132	S	%REC	6/7/2011	
Surr: Toluene-d8	78.7	62-138		%REC	6/7/2011	
TPH (DIESEL)		**SW8015MODEQ**				**SW**
TPH (Diesel)	5,160	30.0		mg/Kg	6/3/2011	
Surr: p-Terphenyl	diluted out	31.2-164	S	%REC	6/3/2011	

Qualifiers:
ND - Not Detected in the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: Sooner Emergency Service, Inc
Lab Order: T11060058 **Date Received:** 6/3/2011
Project: Pepsi **Date Reported:** *08-Jun-11*

Lab ID: T11060058-02 **Collection Date: 6/2/2011 2:15:00 PM** **Sample ID: 3511 E 15th N Rolloff**

Matrix: SOIL

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
BTEX IN SOIL BY GC		**SW8021B**				**SW**
Ethylbenzene	< 0.500	0.500		mg/Kg	6/3/2011	
Toluene	< 0.500	0.500		mg/Kg	6/3/2011	
Xylenes, Total	< 1.50	1.50		mg/Kg	6/3/2011	
Surr: 4-Bromofluorobenzene	142	52.6-174		%REC	6/3/2011	
Surr: Trifluorotoluene	117	41.8-152		%REC	6/3/2011	
BTEX IN SOIL BY GC/MS		**SW8260B**				**BD**
Benzene	< 0.022	0.022		mg/Kg	6/7/2011	
Surr: 4-Bromofluorobenzene	103	49-121		%REC	6/7/2011	
Surr: Dibromofluoromethane	111	82-132		%REC	6/7/2011	
Surr: Toluene-d8	96.8	82-139		%REC	6/7/2011	
TPH (DIESEL)		**SW8015M/ODEQ**				**SW**
TPH (Diesel)	1,190	30.0		mg/Kg	6/3/2011	
Surr: p-Terphenyl	diluted out	31.2-164	S	%REC	6/3/2011	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI - Matrix Interference
H - Exceeds Holding Time

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Green Country TESTING

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Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: Sooner Emergency Service, Inc
Lab Order: T11060058 **Date Received:** 6/3/2011
Project: Pepsi **Date Reported:** 08-Jun-11

Lab ID: T11060058-03 **Collection Date: 6/2/2011 2:10:00 PM** **Sample ID: 3511 E 15th Transformer**
Matrix: SOIL

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
BTEX IN SOIL BY GC		**SW8021B**				**SW**
Ethylbenzene	< 0.500	0.500		mg/Kg	6/3/2011	
Toluene	< 0.500	0.500		mg/Kg	6/3/2011	
Xylenes, Total	< 1.50	1.50		mg/Kg	6/3/2011	
Surr: 4-Bromofluorobenzene	75.0	52.6-174		%REC	6/3/2011	
Surr: Trifluorotoluene	81.0	41.8-152		%REC	6/3/2011	
BTEX IN SOIL BY GC/MS		**SW8260B**				**BD**
Benzene	< 0.023	0.023		mg/Kg	6/7/2011	
Surr: 4-Bromofluorobenzene	103	49-121		%REC	6/7/2011	
Surr: Dibromofluoromethane	106	62-132		%REC	6/7/2011	
Surr: Toluene-d8	98.3	62-139		%REC	6/7/2011	
PCB'S IN SOIL OR SOLID WASTE		**SW8082A**				**8727**
Aroclor 1016	< 148	148		ug/kg	6/6/2011 6:36:00 P	
Aroclor 1221	< 148	148		ug/kg	6/6/2011 6:36:00 P	
Aroclor 1232	< 148	148		ug/kg	6/6/2011 6:36:00 P	
Aroclor 1242	< 148	148		ug/kg	6/6/2011 6:36:00 P	
Aroclor 1248	< 148	148		ug/kg	6/6/2011 6:36:00 P	
Aroclor 1254	< 148	148		ug/kg	6/6/2011 6:36:00 P	
Aroclor 1260	< 148	148		ug/kg	6/6/2011 6:36:00 P	
TPH (DIESEL)		**SW8015M/ODEQ**				**SW**
TPH (Diesel)	1,250	3.00		mg/Kg	6/3/2011	
Surr: p-Terphenyl	150	31.2-164		%REC	6/3/2011	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitations
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI - Matrix Interference
H - Exceeds Holding Time

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Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: Sooner Emergency Service, Inc
Work Order: T11060058
Project: Pepsi

QC SUMMARY REPORT

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
BTEX_S	Ethylbenzene	R49034	MBLK	< 0.50	0.5	mg/Kg		
	Toluene	R49034	MBLK	< 0.50	0.5	mg/Kg		
	Xylenes, Total	R49034	MBLK	< 1.5	1.5	mg/Kg		
	Surr: 4-Bromofluorobenzene	R49034	MBLK	77	0.5	mg/Kg	77	
	Surr: Trifluorotoluene	R49034	MBLK	73	0.5	mg/Kg	73	
	Ethylbenzene	R49034	LCS	81.4	0.5	mg/Kg	81.4	
	Toluene	R49034	LCS	80.8	0.5	mg/Kg	80.8	
	Xylenes, Total	R49034	LCS	247	1.5	mg/Kg	82.3	
	Surr: 4-Bromofluorobenzene	R49034	LCS	94	0.5	mg/Kg	94	
	Surr: Trifluorotoluene	R49034	LCS	71	0.5	mg/Kg	71	
	Ethylbenzene	R49034	MS	93.9	0.5	mg/Kg	91.3	
	Toluene	R49034	MS	87.1	0.5	mg/Kg	86.4	
	Xylenes, Total	R49034	MS	290	1.5	mg/Kg	94.2	
	Surr: 4-Bromofluorobenzene	R49034	MS	142	0.5	mg/Kg	142	
	Surr: Trifluorotoluene	R49034	MS	139	0.5	mg/Kg	139	
	Ethylbenzene	R49034	MSD	101	0.5	mg/Kg	98.4	7.28
	Toluene	R49034	MSD	88.9	0.5	mg/Kg	78.2	6.82
	Xylenes, Total	R49034	MSD	329	1.5	mg/Kg	107	12.6
	Surr: 4-Bromofluorobenzene	R49034	MSD	165	0.5	mg/Kg	185	15
	Surr: Trifluorotoluene	R49034	MSD	119	0.5	mg/Kg	119	15.5
BTEX_S-MS	Benzene	R49068	MBLK	< 0.0050	0.005	mg/Kg		
	Surr: 4-Bromofluorobenzene	R49068	MBLK	104.7	0.005	mg/Kg	105	
	Surr: Dibromofluoromethane	R49068	MBLK	103.8	0.005	mg/Kg	104	
	Surr: Toluene-d8	R49068	MBLK	112.3	0.005	mg/Kg	112	
	Benzene	R49068	LCS	106.4	0.005	mg/Kg	106	
	Surr: 4-Bromofluorobenzene	R49068	LCS	106.8	0.005	mg/Kg	107	
	Surr: Dibromofluoromethane	R49068	LCS	97.3	0.005	mg/Kg	97.3	
	Surr: Toluene-d8	R49068	LCS	105.2	0.005	mg/Kg	105	
	Benzene	R49068	MS	117.7	0.005	mg/Kg	118	
	Surr: 4-Bromofluorobenzene	R49068	MS	245	0.005	mg/Kg	245	
	Surr: Dibromofluoromethane	R49068	MS	118.6	0.005	mg/Kg	119	
	Surr: Toluene-d8	R49068	MS	66.3	0.005	mg/Kg	66.3	
	Benzene	R49068	MSD	110.6	0.005	mg/Kg	111	6.22
	Surr: 4-Bromofluorobenzene	R49068	MSD	249.2	0.005	mg/Kg	249	1.7
	Surr: Dibromofluoromethane	R49068	MSD	108.2	0.005	mg/Kg	108	9.17
	Surr: Toluene-d8	R49068	MSD	98.4	0.005	mg/Kg	98.4	13.1
PCB_S	Aroclor 1016	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1221	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1232	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1242	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1248	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1254	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1260	R49081	MBLK	< 14	14.3	ug/kg		
	Aroclor 1221	R49081	LCS	207	14.3	ug/kg	104	
	Aroclor 1221	R49081	LCS	275	14.3	ug/kg	96.5	7.69
	Aroclor 1254	R49081	LCS	248	14.3	ug/kg	87	5.49

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Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

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Telephone 800.324.5757
Facsimile 918.828.7750

QC SUMMARY REPORT

CLIENT: Sooner Emergency Se
Work Order: T11060058
Project: Pepsi

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
	Aroclor 1254	R49081	LCS	262	14.3	ug/kg	91.9	
TPHDRO_W	TPH (Diesel)	R49038	MBLK	< 1.0	1	mg/L		
	Surr: p-Terphenyl	R49038	MBLK	106	0.1	mg/L	106	
	TPH (Diesel)	R49038	LCS	110	1	mg/L	110	
	Surr: p-Terphenyl	R49038	LCS	106	0.1	mg/L	106	
	TPH (Diesel)	R49038	MS	98.1	1	mg/L	98.1	
	Surr: p-Terphenyl	R49038	MS	133	0.1	mg/L	133	
	TPH (Diesel)	R49038	MSD	101	1	mg/L	101	2.91
	Surr: p-Terphenyl	R49038	MSD	136	0.1	mg/L	136	2.23

06/09/2011 16:28 19185832027 TULSA SOONEREMERGENY
JUN-08-2011 (WED) 12:39

Green Country Testing

Chain of Custody Record

Laboratory Number: 1106-0058

[illegible]		[illegible]		
Company Name:	PEPSI BOTTLING Corp.	SOONER EMER. SVC	PO Number:	Project Name/Number: Pepsi
Contact Name:		TRACY JUSOI	Quote Number:	Sampler's Signature: K Rushing
Address:	3611 EAST 20TH	2244 N. 32ND	Required QC Level: , OL BENZENE	
City, State, Zip:	JOPLIN MO	MUSKOGEE OK 74401		
Phone Number:	Ext:	(918) 683-2936 Ext:	Bill Monthly ☒ Yes ☐ No	Shipping Method: UPS / FedEx / Airborne / DHL / GCT / (Hand) / Mail
Fax Number:		(918) 683-6001		
Email Address:				

Page 1 of 1

Turn Time: Rush
- ☐ Standard
- ☐ 1 Day
- ☐ 2 Day
- ☐ Other RUSH

(Rush turn times will incur a surcharge and must be pre-approved by lab.)

Which Regulations Apply:
- ☐ RCRA
- ☐ POTW
- ☐ NPDES
- ☐ USDA/FDA
- ☐ RECAP/RISC
- ☐ Drinking Water
  - ☐ Distribution
  - ☐ Special
- ☐ State
- ☐ Other

Matrix Code:
- AQ = Aqueous
- DW = Drinking
- WW = Waste
- MW = Monit. Well
- LQ = Liquid
- SO = Soil
- O = Oil
- SL = Sludge
- F = Food
- SW = Swab
- SOL = Solid

Analyses: TPH [illegible] / DRO / PCB's

[illegible]								TPH	DRO	PCB's
3511 E. 15TH So. ROLL-OFF 57821	6-2-11	1410	G	So	5g	G		X		
3511 E. 15TH No. ROLL-OFF 57813	6-2-11	1415	G	So	5g	G		X		
3511 E. 15 TRANSFORMER	6-2-11	1416	G	So	5g	G		X	X	

[illegible]				
Jared Shults	1025	6-3-11	[signature]	6/3/11 1025

Field Notes:

Received on ice? ☒ Yes ☐ No

Temp: 4°C

All samples submitted to Green Country Testing for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Green Country Testing reserves the right to return unused sample protions.

Green Country Testing
6825 East 38th Street • Tulsa, OK 74145
918-838-9977 • Fax (918) 838-7756

Part 1 - Laboratory Copy Part 2 - Report Copy Part 3 - Client's Temporary Copy

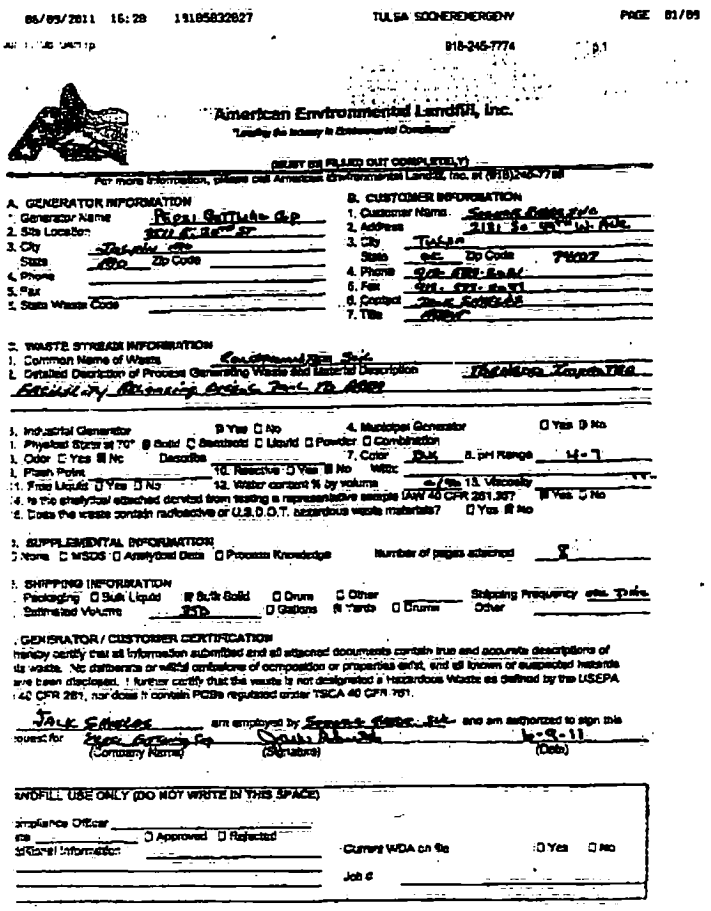
HP LaserJet M1536dnf MFP

Fax Confirmation

HP Fax

Jun-9-2011 9:34PM

Job	Date	Time	Type	Identification	Duration	Pages	Result
429	6/ 9/2011	9:31:23PM	Receive	19185832027	3:05	9	OK



06/09/2011 15:28 19185832027 TULSA SOONEREMERGENV PAGE 01/09

918-245-7774 p.1

American Environmental Landfill, Inc.

"Leading the Industry in Environmental Compliance"

(MUST BE FILLED OUT COMPLETELY)

For more information, please call American Environmental Landfill, Inc. at (918)245-7788

A. GENERATOR INFORMATION
1. Generator Name
2. Site Location
3. City / State / Zip Code
4. Phone
5. Fax
6. State Waste Code

B. CUSTOMER INFORMATION
1. Customer Name
2. Address
3. City / State / Zip Code
4. Phone
5. Fax
6. Contact
7. Title

C. WASTE STREAM INFORMATION
1. Common Name of Waste
2. Detailed Description of Process Generating Waste and Material Description

3. Industrial Generator ☐ Yes ☐ No
4. Municipal Generator ☐ Yes ☐ No
5. Physical State at 70° ☐ Solid ☐ Sludge ☐ Liquid ☐ Powder ☐ Combination
6. Odor ☐ Yes ☐ No Describe
7. Color
8. pH Range
9. Flash Point
10. Reactive ☐ Yes ☐ No Water
11. Free Liquids ☐ Yes ☐ No
12. Water content % by volume
13. Viscosity
14. Is the analytical attached derived from testing a representative sample (AAV 40 CFR 261.20)? ☐ Yes ☐ No
15. Does the waste contain radioactive or U.S.D.O.T. hazardous waste materials? ☐ Yes ☐ No

D. SUPPLEMENTAL INFORMATION
☐ None ☐ MSDS ☐ Analytical Data ☐ Process Knowledge Number of pages attached

E. SHIPPING INFORMATION
Packaging ☐ Bulk Liquid ☐ Bulk Solid ☐ Drums ☐ Other
Estimated Volume ☐ Gallons ☐ Yards ☐ Drums Other
Shipping Frequency

F. GENERATOR / CUSTOMER CERTIFICATION
I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that this waste is not designated a Hazardous Waste as defined by the USEPA 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I am employed by and am authorized to sign this request for (Company Name) (Signature) (Date)

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer
Date ☐ Approved ☐ Rejected
Additional Information
Current WDA on file ☐ Yes ☐ No
Job #

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Group
2. Site Location: 510 West Skelly Drive
3. City: Tulsa State: OK Zip: 74107
4. Phone: _____
5. Fax: _____
6. State Waste Code: _____

B. CUSTOMER INFORMATION

1. Customer Name: ERS
2. Address: P.O. Box 6344
3. City: Tulsa State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Mgr

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Non RCRA, Non DOT Liquids & Solids
2. Detailed Description of Process Generating Waste and Material Description: Cleanout of sanitary sewer drain box because contractor broke a drain line causing fill sand to enter the system. Water carried sand to drain box.
3. Industrial Generator: ☒Yes ☐No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70℉ : ☒Solid ☐Semisolid ☒Liquid ☐Powder ☒Combination
6. Odor: ☒Yes ☐No Describe: Slight sewer
7. Color: Brown
8. pH Range: NA
9. Flash Point: NA
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☒Yes ☐No
12. Water contect % by volume: 20%
13. Viscosity: _____
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION

☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION

1. Packaging: ☒Bulk Liquid ☐Bulk Solid ☐Drum ☐Other Shipping Frequency: As Needed
2. Estimated Volume: 15000 ☒Gallons ☐Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Paul Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling Group

Signature _____ Date 10-7-2013

(LANDFILL USE ONLY DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 10-7-13 ☑ Approved ☐ Rejected

Additional Information: Sounds to Pass P/F Test

Current WDA on File: ☑Yes ☐No

Job #: MN233PEP01

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Group

Mailing Address: 510 West Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Point of Generation Address: 510 West Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Generator Contact: _____ **Title** Mgr **Telephone** 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Non RCRA, Non DOT Liquids & Solids

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed:

15000

☐ Tons ☐ Pounds ☐ Cubic yards ☐ Drum ☒ Other Gallons

Disposal frequency:

☐ One-time ☐ Weekly ☐ Monthly ☒ Annually

Physical characteristics:

☒ Solid ☒ Sludge ☒ Liquid ☐ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☒ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):

Cleanout of sanitary sewer drain box because contractor broke a drain line causing fill sand to enter the system. Water carried sand to drain box.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill **Permit #:** 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- **The information contained herein is accurate, complete, and representative of the waste to be disposed;**
- **The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and**
- **This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.**

Generator Signature

Paul Koons	Mgr	10-7-2013
Printed name	**Title**	**Date**

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Group
2. Site Location: 510 West Skelly Drive
3. City: Tulsa State: OK Zip: 74107
4. Phone: _____
5. Fax: _____
6. State Waste Code: _____

B. CUSTOMER INFORMATION

1. Customer Name: ERS
2. Address: P.O. Box 6344
3. City: Tulsa State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Mgr

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Non RCRA, Non DOT Liquids & Solids
2. Detailed Description of Process Generating Waste and Material Description: Cleanout of sanitary sewer drain box because contractor broke a drain line causing fill sand to enter the system. Water carried sand to drain box.
3. Industrial Generator: ☒Yes ☐No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70℉ : ☒Solid ☐Semisolid ☒Liquid ☐Powder ☒Combination
6. Odor: ☒Yes ☐No Describe: Slight sewer
7. Color: Brown
8. pH Range: NA
9. Flash Point: NA
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☒Yes ☐No
12. Water contect % by volume: 20%
13. Viscosity: _____
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION

☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION

1. Packaging: ☒Bulk Liquid ☐Bulk Solid ☐Drum ☐Other Shipping Frequency: As Needed
2. Estimated Volume: 15000 ☒Gallons ☐Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Paul Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling Group

Signature _____ Date 10-7-2013

(LANDFILL USE ONLY DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 10-7-13 ☑ Approved ☐ Rejected

Additional Information: Sounds to Pass P/F Test

Current WDA on File: ☑Yes ☐No

Job #: MN233PEP01

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Group

Mailing Address: 510 West Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Point of Generation Address: 510 West Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Generator Contact: _____ **Title** Mgr **Telephone** 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Non RCRA, Non DOT Liquids & Solids

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed:

15000

☐ Tons ☐ Pounds ☐ Cubic yards ☐ Drum ☒ Other Gallons

Disposal frequency:

☐ One-time ☐ Weekly ☐ Monthly ☒ Annually

Physical characteristics:

☒ Solid ☒ Sludge ☒ Liquid ☐ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☒ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):

Cleanout of sanitary sewer drain box because contractor broke a drain line causing fill sand to enter the system. Water carried sand to drain box.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill **Permit #:** 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- **The information contained herein is accurate, complete, and representative of the waste to be disposed;**
- **The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and**
- **This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.**

Generator Signature

Paul Koons	Mgr	10-7-2013
Printed name	**Title**	**Date**

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Group
2. Site Location: 5223 S. Lawton
3. City: Tulsa State: OK Zip: _____
4. Phone: _____
5. Fax: _____
6. State Waste Code: _____

B. CUSTOMER INFORMATION

1. Customer Name: ERS
2. Address: PO Box 6344
3. City: Tulsa State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Mgr

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Pepsi products in soil / gravel & absorbent media. (No Free Liquids)
2. Detailed Description of Process Generating Waste and Material Description: Cleanup of Pepsi product release. Excavation of impacted soil.
3. Industrial Generator: ☐Yes ☒No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70°F : ☒Solid ☐Semisolid ☐Liquid ☐Powder ☐Combination
6. Odor: ☐Yes ☒No Describe: _____
7. Color: Brown
8. pH Range: NA
9. Flash Point: NA
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☐Yes ☒No
12. Water contect % by volume: 0%
13. Viscosity: _____
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION

☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION

1. Packaging: ☐Bulk Liquid ☒Bulk Solid ☐Drum ☐Other Shipping Frequency: One Time
2. Estimated Volume: 3 ☐Gallons ☒Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Paul Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling Group

Signature _____ Date 10-16-2014

(LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 10-17-14 ☒ Approved ☐ Rejected

Additional Information: None

Current WDA on File: ☒Yes ☐No

Job #: MN233PEP02

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Group

Mailing Address: 5223 S. Lawton City Tulsa State OK Zip

Point of Generation Address: 5223 S. Lawton City Tulsa State OK Zip

Generator Contact: Title Mgr Telephone 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Pepsi products in soil / gravel & absorbent media. (No Free Liquids)

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed:

3

☐ Tons ☐ Pounds
☒ Cubic yards ☐ Drum
☐ Other

Disposal frequency:

☒ One-time ☐ Weekly
☐ Monthly ☐ Annually

Physical characteristics:

☒ Solid ☐ Liquid
☐ Sludge ☐ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☒ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):
Cleanup of Pepsi product release. Excavation of impacted soil.

DESIGNATED RECEIVING LANDFILL

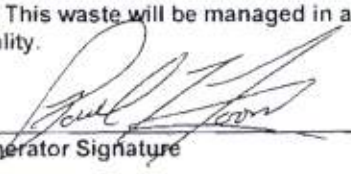
Name: American Environmental Landfill Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.



Generator Signature

Paul Koons	Mgr	10-16-2014
Printed name	Title	Date

Adopted June 2003

DEQ Form # 515-860

Tulsa
918-437-9999

Fort Smith
479-782-9999

Oklahoma City
405-235-9999

Environmental Remediation Specialists Inc.
Emergency Response Services

800-700-0777

Helping Cleanup America Since 1990

Corporate
P.O. Box 6344
Tulsa, OK 74148

Fax 866-738-8713

www.ersok.com
DEQ License 1021

LETTER OF AGENT

Environmental Remediation Specialists, Inc., ERS, and its affiliates, upon your approval and signature below, can sign waste profile forms, waste characterization forms, DEQ waste notification forms, waste manifests, and other applicable waste related forms generated during emergency response activities, industrial activities, waste characterization, waste pickup, waste transportation, and / or site cleanup events "as agent for Pepsi Bottling Group ", thereby speeding up the disposal and closure process.

Please sign below to indicate your approval for Environmental Remediation Specialists, Inc., ERS, and its affiliates to sign above mentioned documents on behalf of Pepsi Bottling Group

Please return a signed and dated copy of this letter to: ERS Incident Coordinator, P.O. Box 6344, Tulsa, OK 74148 or via fax to 1-866-738-8713, or via email to documents@ersok.com.

As always, we appreciate the opportunity to provide you with our professional consulting, emergency response, and remediation services and look forward to our continued relationship.

Respectfully submitted,
Environmental Remediation Specialists, Inc.
Tulsa / Oklahoma City / Fort Smith
800-700-0777

DEQ License # 1021

The above conditions are accepted this 6TH day of October , 2013

Client: Pepsi Bottling Group

By: Thomas Strong
Print Name

Thomas Strong
Signature

Title: Facility Maintenance

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Group
2. Site Location: 5223 S. Lawton
3. City: Tulsa State: OK Zip: _____
4. Phone: _____
5. Fax: _____
6. State Waste Code: _____

B. CUSTOMER INFORMATION

1. Customer Name: ERS
2. Address: PO Box 6344
3. City: Tulsa State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Mgr

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Pepsi products and powerwash rinsate
2. Detailed Description of Process Generating Waste and Material Description: Cleanup of Pepsi product release. Powerwashing of spill on hard surface.
3. Industrial Generator: ☐Yes ☒No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70°F : ☐Solid ☐Semisolid ☒Liquid ☐Powder ☐Combination
6. Odor: ☐Yes ☒No Describe:_____
7. Color: Brown
8. pH Range: NA
9. Flash Point: NA
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☒Yes ☐No
12. Water contect % by volume: 90%
13. Viscosity: _____
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION

☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION

1. Packaging: ☒Bulk Liquid ☐Bulk Solid ☐Drum ☐Other Shipping Frequency: One Time
2. Estimated Volume: 150 ☒Gallons ☐Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Paul Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling Group

Signature _____ Date 10-16-2014

(LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 10-17-14 ☑Approved ☐Rejected

Additional Information: Sample to Pass LPFT

Current WDA on File: ☑Yes ☐No

Job #: MN233PEP03

NHIW CERTIFICATION

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Group

Mailing Address: 5223 S. Lawton City Tulsa State OK Zip

Point of Generation Address: 5223 S. Lawton City Tulsa State OK Zip

Generator Contact: Title Mgr Telephone 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Pepsi products and powerwash rinsate

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed:

150

☐ Tons ☐ Pounds ☒ One-time ☐ Weekly ☐ Solid ☒ Liquid
☐ Cubic yards ☐ Drum ☐ Monthly ☐ Annually ☐ Sludge ☐ Combination
☒ Other Gallons

Disposal frequency:

Physical characteristics:

Method used to determine waste is non-hazardous: ☐ Analysis ☒ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):
Cleanup of Pepsi product release. Powerwashing of spill on hard surface.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Generator Signature

Paul Koons | Mgr | 10-16-2014

Printed name | Title | Date

Adopted June 2003

DEQ Form # 515-860

09081702

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: THE PEPSI BOTTLING CO.

Mailing Address: 5202 So. HOUSTON AVE. City TULSA State OK Zip 74107

Point of Generation Address: SKIATOOK City OKLA State OK Zip

Generator Contact: JACK SHIELDS Title AGENT Telephone 9181582-2021

DETAILED WASTE DESCRIPTION

Waste Name: DIESEL CONTAMINATED SOIL & ROCK

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☐ N/A Okla. waste

Approximate amount of waste to be disposed:

Disposal frequency: Physical characteristics:

10 ☐ Tons ☐ Pounds ☐ One-time ☐ Weekly ☐ Solid ☐ Liquid
☐ Cubic yards ☐ Drum ☐ Monthly ☐ Annually ☐ Sludge ☐ Combination
☐ Other

Method used to determine waste is non-hazardous: ☐ Analysis ☐ Generator knowledge ☐ Both MSDS

Process generating waste (be specific and use additional sheets if necessary):

FUEL TANK ON TRUCK RUPTURED RELEASING DIESEL FUEL TO PARKING

DESIGNATED RECEIVING LANDFILL

Name: AMERICAN ENVIRONMENTAL LANDFILL Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Jack Shields
Generator Signature

JACK SHIELDS AGENT 8/14/09
Printed name Title Date

Adopted June 2002

DEQ Form # 013-009

IMAGED AS RECEIVED

American Environmental Landfill, Inc.

"Leading the Industry in Environmental Compliance"

(MUST BE FILLED OUT COMPLETELY)

For more information, please call American Environmental Landfill, Inc. at (918)245-7786

A. GENERATOR INFORMATION

1. Generator Name: The Pepsi Bottling Co.
2. Site Location: Hwy 22 - Hwy 75
3. City:
   State: OKLA Zip Code:
4. Phone: (918) 445-8082
5. Fax: (918) 445-8126
6. State Waste Code:

B. CUSTOMER INFORMATION

1. Customer Name: Sooner Emer. Service
2. Address: 2131 So. 49th W. Ave
3. City: Tulsa
   State: OK Zip Code: 74107
4. Phone: (918) 588-2021
5. Fax: (918) 588-2027
6. Contact: Jack Shields
7. Title: Agent

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Diesel Contaminated Soil & Rock
2. Detailed Decription of Process Generating Waste and Material Description: Fuel Tank Rupture on Truck Releasing Diesel Fuel

3. Industrial Generator ☒ Yes ☐ No
4. Municipal Generator ☐ Yes ☒ No
5. Physical State at 70° ☒ Solid ☐ Semisolid ☐ Liquid ☐ Powder ☐ Combination
6. Odor ☐ Yes ☐ No Describe: Mild
7. Color: Gray
8. pH Range: 7
9. Flash Point:
10. Reactive ☐ Yes ☒ No With:
11. Free Liquid ☐ Yes ☐ No
12. Water content % by volume: <1%
13. Viscosity:
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35? ☐ Yes ☒ No
15. Does the waste contain radioactive or U.S.D.O.T. hazardous waste materials? ☐ Yes ☒ No

D. SUPPLEMENTAL INFORMATION

☐ None ☒ MSDS ☐ Analytical Data ☒ Process Knowledge

Number of pages attached: 9

E. SHIPPING INFORMATION

1. Packaging ☐ Bulk Liquid ☒ Bulk Solid ☐ Drum ☐ Other
2. Estimated Volume: 10 ☐ Gallons ☒ Yards ☐ Drums

Shipping Frequency: Cell-Time
Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Jack Shields am employed by Sooner Emer. Svc. and am authorized to sign this request for The Pepsi Bottling Co. (Company Name) [signature] (Signature) 8/14/09 (Date)

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]
Date: 8-17-09 ☐ Approved ☒ Rejected
Additional Information: None

Current WDA on file ☐ Yes ☐ No

Job #

IMAGED AS RECEIVED

SINCLAIR
MATERIAL SAFETY DATA SHEET
SINCLAIR DIESEL MSDS No. 58

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name (Used on Label):	Diesel
Description:	Diesel
Synonyms:	Diesel, Distillate, Cycle Oil, Fuel Oil, Diesels Cycle Oil, Furnace Oil
Chemical Family:	Liquid Hydrocarbons
EMERGENCY TELEPHONE:	CHEMTREC - (800) 424-9300 or (703) 527-3887 (collect)
SUPPLIER:	Sinclair Oil Corporation P. O. Box 30825 Salt Lake City, Utah 84130
TELEPHONE:	(888) 340-3466
FAX:	(801) 524-2740

2. COMPOSITION, INFORMATION ON INGREDIENTS

CAS Registry Number: #1 Diesel 8008-20-6
#2 Diesel 68476-34-6

COMPOSITION COMMENTS:

	Typical wt.%	CAS Registry #
#1 Diesel		
Toluene	0-0.5	108-88-3
Naphthalene	0-0.5	91-20-3
#2 Diesel		
Toluene	0-0.5	108-88-3
Naphthalene	0-0.5	91-20-3

EXPOSURE GUIDELINES:

	OSHA			ACGIH		
COMPONENTS	TWA	STEL	CEILING	TWA	STEL	UNIT
Toluene	200		300			ppm
Naphthalene	10			10	15	ppm
Petroleum Distillates (Naphtha)	500					ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Colorless, red, blue, or amber liquid with kerosene odor. May cause eye, skin and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS:

Trauma and burns secondary to explosions and fires can result. In enclosed spaces, oxygen may be displaced by vapors or consumed by combustion. Incomplete combustion will produce carbon monoxide and other toxic gases.

INHALATION:

Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other central nervous system effects.

EYE CONTACT:

Contact may cause eye irritation. Naphthalene vapor causes eye irritation.

SKIN CONTACT:

Contact may irritate or burn skin. Absorption through the skin may cause symptoms of intoxication, followed by kidney damage.

INGESTION:

If aspirated (liquid enters lung) following ingestion, severe lung irritation and pulmonary edema (swelling of lung tissue) may occur. Aspiration may also result in central nervous system depression or excitement. Serious permanent lung damage may result. Nausea, vomiting, diarrhea, and abdominal pain may occur following ingestion.

4. FIRST AID MEASURES

Remove all clothing impregnated with material immediately. Consult a physician for major exposures of inhalation or skin contact.

INHALATION:

Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance. If breathing stops, use mouth-to-mouth resuscitation.

EYE CONTACT:

Flush immediately with water for at least 15 minutes minimum. Seek medical attention promptly.

SKIN CONTACT:
Discard contaminated leather articles. Wash contact areas with soap and water. Launder contaminated clothing before reuse.

INGESTION:
DO NOT INDUCE VOMITING. Get medical assistance promptly. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.)

5. FIRE FIGHTING MEASURES

Flashpoint and Method:	100° F Minimum
Flammable Limits:	LEL - 1.3 UEL - 6
Autoignition Temperature:	490° - 545° F

GENERAL HAZARD:
Incomplete burning can produce carbon monoxide. Vapors will be released above flash point and when mixed with air, can burn or explode in confined space if exposed to sources of ignition.

FIRE FIGHTING INSTRUCTIONS:
Use foam, dry chemical, CO_2, water fog or vaporizing liquid (Halon). Keep personnel removed from and up-wind of fire. Cool adjacent structures and storage drums with water spray. Evacuate area. Prevent runoff from fire control dilution from entering streams or drinking water supply.

FIRE FIGHTING EQUIPMENT:
Use of SCBA in enclosed or confined spaces, or as otherwise needed. Bunker gear.

HAZARDOUS COMBUSTION PRODUCTS:
May produce carbon monoxide.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: < 1 PSIA	Vapor Density: >1
Specific Gravity: 0.75 - 0.90	(Air = 1)
Solubility in Water: No	Freezing Point: 0° F
pH: N/A	Appearance: colorless, red, blue or amber
Boiling Point: 550° F	Physical State: Liquid

10. STABILITY AND REACTIVITY

GENERAL:
This product is stable.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:
Strong acids, alkalies and oxidizers. Avoid heat, sparks, flame and static electricity.

HAZARDOUS DECOMPOSITION:
Incomplete burning can produce carbon monoxideGENERAL:

11. TOXICOLOGICAL INFORMATION

SYSTEMIC:
Petroleum-derived fuels and fuel oils are complex and variable mixtures of hydrocarbons. In general, the more viscous the mixture, the less toxic it will be. At high level exposures, humans experience multiple organ failures, some of which may be due to hypoxia and secondary to the failure of other organ systems. In humans kidney failure has been noted only at high, acute levels of exposures, and appears reversible. Liver enzymes may be transiently elevated. At lower level exposures, most acute health effects are reversible. People can be exposed by inhalation, ingestion and dermal contact. Frequently, people are exposed by combined dermal and inhalation exposure.

ACUTE:
Inhalation: Headaches, confusion, disorientation, blurred vision occur with inhalation. Higher exposures may cause hallucinations, CNS excitation, drowsiness, CNS depression. Seizure and coma occur from very high exposures and death may result from respiratory depression. ECG changes, cardiac arrhythmias, tachycardia, shock and cardiovascular collapse can occur. Pneumonia, pulmonary edema and hemorrhages can occur.

Inhalation of 8000-16000 mg/m3 for 2 to 4 hours was lethal to rats.

Ingestion: Central nervous system, cardiovascular, and respiratory effects have been reported with acute exposures to various hydrocarbon fuels and oils similar to those reported with inhalation. Nausea, vomiting, cramping and diarrhea may occur.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Shut off and eliminate all ignition sources. Keep people away. Remove leaking containers to a safe area. Contain and remove by mechanical means. Add sand, earth or other suitable absorbent to spill area than scrape off the ground. Guard against contamination of water supplies. Report spills to appropriate authorities. Dispose of in accordance with Federal, State and Local regulations.

WATER SPILL:

Spill may be removed from water with mechanical dredges or lifts. Report spills to appropriate authorities. Dispose of in accordance with Federal, State and Local regulations.

7. HANDLING AND STORAGE

GENERAL:

Ground and bond all transfer and storage equipment. Drums must be grounded/ bonded/ equipped with self- closing valves, pressure vacuum bungs and flame arrestors. Store away from ignition sources in a cool area. Outside or detached storage is preferred.

When handling use non-sparking tools and equipment. Do not use as a cleaner or solvent, use only as fuel. Do not siphon by mouth.

8. ENGINEERING CONTROLS, RESPIRATORY & PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide ventilation sufficient to prevent exceeding recommended exposure limit or build-up of explosive concentrations of vapor in air. Use explosion-proof equipment.

PERSONAL PROTECTION:

RESPIRATOR:

Approved respiratory protection must be used when vapors or mist concentrations are unknown or exceed the TLV. Avoid prolonged or repeated breathing of vapor or mists.

PROTECTIVE CLOTHING:

Use full-face shield, chemical goggles, impervious gloves, boots and whole body protection.

Eye: Conjunctivitis and burning, watery eyes have been reported in acute exposures to various hydrocarbon fuels and oils.

Skin: Mild erythema to full thickness chemical burns have occurred after prolonged exposure to various hydrocarbon fuels and oils.

Chronic:
Chronic dermatitis with acanthosis, inflammation, parakeratosis and hyperkeratosis have occurred with chronic exposures to various hydrocarbon fuels and oils.
Occupational exposures in petroleum refining are considered Group 2A (probably carcinogenic) by IARC.

12. DISPOSAL CONSIDERATIONS

RCRA: Disposal of this product or material contaminated with this product may be regulated by RCRA due to the characteristic of ignitability.

EPA Hazard Class: Acute Hazard/Chronic Hazard/Fire Hazard

Dispose of in accordance with Federal, State, and Local regulations.

13.TRANSPORT INFORMATION

DOT (Department of Transportation):

PROPER SHIPPING NAME:	Combustible Liquid nos (Diesel #1, Diesel #2)
HAZARD CLASS:	Combustible Liquid
IDENTIFICATION NUMBER:	UN 1993 PG III
NAERG96 NUMBER:	128

14. REGULATORY INFORMATION

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act):
Naphthalene and Toluene are hazardous substances under CERCLA and therefore are subject to emergency notification requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act): Naphthalene and Toluene are subject to SARA Title III, Sections 311 and 312, which require MSDS reporting and hazardous chemical inventory reporting.

Naphthalene and Toluene are also subject to SARA Title III, Section 313, which requires chemical release reporting.

15.OTHER INFORMATION

NFPA 704/HMIS

Health - 0 Flammability - 2 Reactivity - 0
(0=insignificant, 1=slight, 2=moderate, 3=high, 4=extreme)

REVISION SUMMARY:
Complete review of MSDS, December 2002.

THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT SHOULD BE USED IN APPLICATIONS CONSISTENT WITH THIS PRODUCT LITERATURE. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS

THIS MATERIAL SAFETY DATA SHEET IS PROVIDED IN GOOD FAITH AND MEETS THE REQUIREMENTS OF THE HAZARDOUS COMMUNICATION PROVISIONS OF SARA TITLE III AND 29CFR1910.1200(g) OF THE OSHA REGULATIONS. THE ABOVE INFORMATION IS BASED ON REVIEW OF AVAILABLE INFORMATION SINCLAIR BELIEVES IS RELIABLE AND IS SUPPLIED FOR INFORMATIONAL PURPOSES ONLY. SINCLAIR DOES NOT GUARANTEE ITS COMPLETENESS OR ACCURACY. SINCE CONDITIONS OF USE ARE OUTSIDE THE CONTROL OF SINCLAIR, SINCLAIR DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, AND ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM THE USE OF THE ABOVE DATA. NOTHING HEREIN IS INTENDED TO PERMIT INFRINGEMENT OF VALID PATENTS AND LICENSES.

DATE: July 2004
SUPERSEDES: July 2003

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Group
2. Site Location: 510 West Skelly Drive
3. City: Tulsa State: OK Zip: 74107
4. Phone: 918-445-8511
5. Fax: _____
6. State Waste Code: _____

B. CUSTOMER INFORMATION

1. Customer Name: ERS
2. Address: PO Box 6344
3. City: Tulsa State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Mgr

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Sand, Gravel, & Filter Media
2. Detailed Description of Process Generating Waste and Material Description: Cleanout of filter tank utilized to filter city water before process.
3. Industrial Generator: ☒Yes ☐No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70℉ : ☒Solid ☐Semisolid ☐Liquid ☐Powder ☐Combination
6. Odor: ☐Yes ☒No Describe:_____
7. Color: Brown
8. pH Range: NA
9. Flash Point: NA
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☒Yes ☐No
12. Water contect % by volume: 10%
13. Viscosity: _____
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION

☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION

1. Packaging: ☐Bulk Liquid ☒Bulk Solid ☐Drum ☐Other Shipping Frequency: As Needed
2. Estimated Volume: 10000 ☒Gallons ☐Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Paul Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling Group

Signature _____ Date 11-20-2014

(LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 11-20-14 ☒ Approved ☐ Rejected

Additional Information: Scheduled to Pass Load

Current WDA on File: ☑Yes ☐No

Job #: MN233PEP04

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Group

Mailing Address: 510 West Skelly Drive City Tulsa State OK Zip 74107

Point of Generation Address: 510 West Skelly Drive City Tulsa State OK Zip 74107

Generator Contact: _____ Title Mgr Telephone 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Sand, Gravel, & Filter Media

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed: 10000

☐ Tons ☐ Pounds ☐ Cubic yards ☐ Drum ☒ Other Gallons

Disposal frequency: ☐ One-time ☐ Weekly ☐ Monthly ☒ Annually

Physical characteristics: ☒ Solid ☐ Sludge ☒ Liquid ☒ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☒ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):
Cleanout of filter tank utilized to filter city water before process.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Generator Signature

Paul Koons | Mgr | 11-20-2014

Printed name | Title | Date

Tulsa
918-437-9999

Fort Smith
479-782-9999

Oklahoma City
405-235-9999

ERS
Environmental Remediation Specialists Inc.
Emergency Response Services

800-700-0777

Helping Cleanup America Since 1990

Corporate
P.O. Box 6344
Tulsa, OK 74148

Fax 866-738-8713

www.ersok.com
DEQ License 1021

LETTER OF AGENT

Environmental Remediation Specialists, Inc., ERS, and its affiliates, upon your approval and signature below, can sign waste profile forms, waste characterization forms, DEQ waste notification forms, waste manifests, and other applicable waste related forms generated during emergency response activities, industrial activities, waste characterization, waste pickup, waste transportation, and / or site cleanup events "as agent for Pepsi Bottling Group ", thereby speeding up the disposal and closure process.

Please sign below to indicate your approval for Environmental Remediation Specialists, Inc., ERS, and its affiliates to sign above mentioned documents on behalf of Pepsi Bottling Group

Please return a signed and dated copy of this letter to: ERS Incident Coordinator, P.O. Box 6344, Tulsa, OK 74148 or via fax to 1-866-738-8713, or via email to documents@ersok.com.

As always, we appreciate the opportunity to provide you with our professional consulting, emergency response, and remediation services and look forward to our continued relationship.

Respectfully submitted,
Environmental Remediation Specialists, Inc.
Tulsa / Oklahoma City / Fort Smith
800-700-0777

DEQ License # 1021

The above conditions are accepted this 6TH day of October , 2013

Client: Pepsi Bottling Group

By: Thomas Strong
Print Name

Thomas Strong
Signature

Title: Facility Maintenance

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Co.
2. Site Location: 510 W. Skelly Drive
3. City: Tulsa State: OK Zip: 74107
4. Phone: _____
5. Fax: _____
6. State Waste Code: OK

B. CUSTOMER INFORMATION

1. Customer Name: ERS
2. Address: PO Box 6344
3. City: Tusla State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Manager

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Neautralized battery acid and powerwash rinsate
2. Detailed Description of Process Generating Waste and Material Description: Clean up of small battery acid realease during equipment washing activities. Hard surface area wash neautralized and powerwashed.Vaccuming of powerwash rinsate.
3. Industrial Generator: ☐Yes ☒No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70F : ☐Solid ☐Semisolid ☒Liquid ☐Powder ☐Combination
6. Odor: ☐Yes ☒No Describe:_____
7. Color: Brown
8. pH Range: 6-7
9. Flash Point: N/A
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☒Yes ☐No
12. Water contect % by volume: 99%
13. Viscosity: n/a
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION

☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION

1. Packaging: ☒Bulk Liquid ☐Bulk Solid ☐Drum ☐Other Shipping Frequency: 1 time
2. Estimated Volume: 500 ☒Gallons ☐Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Erica Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling, Co.

Signature

Aug. 13 2015
Date

(LANDFILL USE ONLY DO NOT WRITE IN THIS SPACE)

Compliance Officer:

Date: 8-14-15 ☒ Approved ☐ Rejected

Additional Information: Sample to Pass PFT

Current WDA on File: ☒Yes ☐No

Job #: MN233PEP05

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pesi Bottling, Co.

Mailing Address: 510 W. Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Point of Generation Address: 510 W. Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Generator Contact: _____ **Title** Emergency Response Administ **Telephone** 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Neautraillized battery acid and powerwash rinsate.

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed:

500

☐ Tons ☐ Cubic yards ☒ Other gallons

Disposal frequency:

☐ Pounds ☐ Drum

☒ One-time ☐ Monthly ☐ Weekly ☐ Annually

Physical characteristics:

☐ Solid ☐ Sludge

☒ Liquid ☐ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☐ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):

Clean up of small battery acid release during equipment washing activites.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill **Permit #:** 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- **The information contained herein is accurate, complete, and representative of the waste to be disposed;**
- **The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and**
- **This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.**

Generator Signature

Erica M. Koons — **Printed name**

Emergency Response Administrator — **Title**

08-13-15 — **Date**

Adopted June 2003

DEQ Form # 515-860

Tulsa
918-437-9999

Fort Smith
479-782-9999

Oklahoma City
405-235-9999

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Fax 866-738-8713

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DEQ License 1021

LETTER OF AGENT

Environmental Remediation Specialists, Inc., ERS, and its affiliates, upon your approval and signature below, can sign waste profile forms, waste characterization forms, DEQ waste notification forms, waste manifests, and other applicable waste related forms generated during emergency response activities, industrial activities, waste characterization, waste pickup, waste transportation, and / or site cleanup events "as agent for Pepsi Bottling Group ", thereby speeding up the disposal and closure process.

Please sign below to indicate your approval for Environmental Remediation Specialists, Inc., ERS, and its affiliates to sign above mentioned documents on behalf of Pepsi Bottling Group

Please return a signed and dated copy of this letter to: ERS Incident Coordinator, P.O. Box 6344, Tulsa, OK 74148 or via fax to 1-866-738-8713, or via email to documents@ersok.com.

As always, we appreciate the opportunity to provide you with our professional consulting, emergency response, and remediation services and look forward to our continued relationship.

Respectfully submitted,
Environmental Remediation Specialists, Inc.
Tulsa / Oklahoma City / Fort Smith
800-700-0777

DEQ License # 1021

The above conditions are accepted this 16TH day of October , 2013

Client: Pepsi Bottling Group

By: Thomas Strong
Print Name

Thomas Strong
Signature

Title: Facility Maintenance

American Environmental Landfill, Inc.
"Leading the Industry in Environmental Compliance"

A. GENERATOR INFORMATION
1. Generator Name: Pepsi Bottling Co.
2. Site Location: 510 W. Skelly Drive
3. City: Tulsa State: OK Zip: 74107
4. Phone: _____
5. Fax: _____
6. State Waste Code: OK

B. CUSTOMER INFORMATION
1. Customer Name: ERS
2. Address: PO Box 6344
3. City: Tusla State: OK Zip: 74148
4. Phone: 800-700-0777
5. Fax: 866-738-8713
6. Contact: Paul Koons
7. Title: Manager

C. WASTE STREAM INFORMATION
1. Common Name of Waste: Neautralized battery acid in soil and gravel.
2. Detailed Description of Process Generating Waste and Material Description: Clean up of small battery acid realease during equipment washing activities. Excavation of impacted soil and gravel.
3. Industrial Generator: ☐Yes ☒No
4. Municipal Generator: ☐Yes ☒No
5. Physical State at 70°F : ☒Solid ☐Semisolid ☐Liquid ☐Powder ☐Combination
6. Odor: ☐Yes ☒No Describe:_____
7. Color: Brown
8. pH Range: 6-7
9. Flash Point: N/A
10. Reactive: ☐Yes ☒No With: _____
11. Free Liquid: ☐Yes ☒No
12. Water contect % by volume: 0%
13. Viscosity: n/a
14. Is the analytical attached derived from testing a representative sample IAW 40 CFR 261.35?: ☐Yes ☐No
15. Does the waste contain radioactive of U.S. D.O.T. hazardous waste materials?: ☐Yes ☒No

D. SUPPLEMENTAL INFORMATION
☐None ☐MSDS ☐Analytical Data ☒Process Knowledge Number of pages attached: _____

E. SHIPPING INFORMATION
1. Packaging: ☐Bulk Liquid ☒Bulk Solid ☐Drum ☐Other Shipping Frequency: 1 time
2. Estimated Volume: 20 ☐Gallons ☒Yards ☐Drums ☐Other:

F. GENERATOR / CUSTOMER CERTIFICATION
I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is no designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Erica Koons, am employed by ERS and am authorized to sign this request for Pepsi Bottling, Co.

Signature

Aug. 13, 2015
Date

(LANDFILL USE ONLY DO NOT WRITE IN THIS SPACE)
Compliance Officer:
Date: 8-14-15 ☑ Approved ☐ Rejected

Additional Information: NONE

Current WDA on File: ☑Yes ☐No
Job #: MN233PEP06

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pesi Bottling, Co.

Mailing Address: 510 W. Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Point of Generation Address: 510 W. Skelly Drive **City** Tulsa **State** OK **Zip** 74107

Generator Contact: _____ **Title** Emergency Response Administ **Telephone** 800-700-0777

DETAILED WASTE DESCRIPTION

Waste Name: Neautralized battery acid in soil and gravel.

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

Approximate amount of waste to be disposed:

20

☐ Tons ☒ Cubic yards ☐ Other _____

Disposal frequency:

☐ Pounds ☐ Drum

☒ One-time ☐ Weekly ☐ Monthly ☐ Annually

Physical characteristics:

☒ Solid ☐ Sludge ☐ Liquid ☐ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☐ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):

Clean up of small battery acid release during equipment washing activites.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill **Permit #:** 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- **The information contained herein is accurate, complete, and representative of the waste to be disposed;**
- **The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and**
- **This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.**

Generator Signature

Erica M. Koons — **Printed name**

Emergency Response Administrator — **Title**

08-13-15 — **Date**

Adopted June 2003

DEQ Form # 515-860

Tulsa
918-437-9999

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DEQ License 1021

ENVIRONMENTAL REMEDIATION **WASTE DISPOSAL** INDUSTRIAL SERVICES

LETTER OF AGENT

Environmental Remediation Specialists, Inc., ERS, and its affiliates, upon your approval and signature below, can sign waste profile forms, waste characterization forms, DEQ waste notification forms, waste manifests, and other applicable waste related forms generated during emergency response activities, industrial activities, waste characterization, waste pickup, waste transportation, and / or site cleanup events "as agent for Pepsi Bottling Group ", thereby speeding up the disposal and closure process.

Please sign below to indicate your approval for Environmental Remediation Specialists, Inc., ERS, and its affiliates to sign above mentioned documents on behalf of Pepsi Bottling Group .

Please return a signed and dated copy of this letter to: ERS Incident Coordinator, P.O. Box 6344, Tulsa, OK 74148 or via fax to 1-866-738-8713, or via email to documents@ersok.com.

As always, we appreciate the opportunity to provide you with our professional consulting, emergency response, and remediation services and look forward to our continued relationship.

Respectfully submitted,
Environmental Remediation Specialists, Inc.
Tulsa / Oklahoma City / Fort Smith
800-700-0777

DEQ License # 1021

The above conditions are accepted this 6TH day of October , 2013

Client: Pepsi Bottling Group

By: Thomas Strong
Print Name

T. Thomas Strong
Signature

Title: Facilities Maintenance

AMERICAN ENVIRONMENTAL
A Renewable Energy Landfill

American Environmental Landfill, Inc.

"Leading the Industry in Environmental Compliance"

(MUST BE FILLED OUT COMPLETELY)

For more information, please call American Environmental Landfill, Inc. at (918)245-7786

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Company
2. Site Location: 1200 W Wilson St.
3. City: Fayetteville
   State: AR Zip Code: 72701
4. Phone: 479-751-1900
5. Fax:
6. State Waste Code:

B. CUSTOMER BILLING INFORMATION

1. Billed to Name: Mid-America Environmental Solutions
2. Address: PO Box 737
3. City: Carthage
   State: MO Zip Code: 64836
4. Phone: 417-358-3599
5. Fax: 417-358-8332
6. Contact: David Palmer
7. Title: Technical Sales

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Non-Haz waste water N.O.S. (water impacted with diesel)
2. Detailed Decription of Process Generating Waste and Material Description: Waste water impacted from diesel from cleaning out storm drain trap and pipe

3. Industrial Generator ☑ Yes ☐ No
4. Municipal Generator ☐ Yes ☑ No
5. Physical State at 70° ☐ Solid ☐ Semisold ☑ Liquid ☐ Powder ☐ Combination
6. Odor ☑ Yes ☐ No Describe: diesel
7. Color: clear
8. pH Range: N/A
9. Flash Point: >200
10. Reactive ☐ Yes ☑ No With:
11. Free Liquid ☑ Yes ☐ No
12. Water content % by volume: 95%
13. Viscosity:
14. Is the analytical attached dervied from testing a representative sample IAW 40 CFR 261? ☐ Yes ☑ No
15. Does the waste contain radioactive or U.S.D.O.T. hazardous waste materials? ☐ Yes ☑ No

D. SUPPLEMENTAL INFORMATION

☐ None ☐ MSDS ☐ Analytical Data ☑ Process Knowledge Number of pages attached:

E. SHIPPING INFORMATION

1. Packaging ☐ Bulk Liquid ☐ Bulk Solid ☑ Drum ☐ Other Shipping Frequency: 1 time
2. Estimated Volume: 50 ☑ Gallons ☐ Yards ☐ Drums Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Tamara Mata am employed by PEPSICO/CEMS and am authorized to sign this request for PEPSICO/CEMS (Company Name) (Signature) TMata (Date) October 19, 2015

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]
Date: 10-20-15 ☑ Approved ☐ Rejected
Additional Information: Solidify to Pass LPFT
Current WDA on file ☑ Yes ☐ No
Job #: MN191PBC01

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Company

Mailing Address: 541 E Robinson City Springdale State AR Zip 72764

Point of Generation Address: 1200 W Wilson St City Fayetteville State AR Zip 72701

Generator Contact: _____ Title _____ Telephone _____

DETAILED WASTE DESCRIPTION

Waste Name: Non-Haz waste liquid N.O.S. (water impacted with diesel)

If waste was generated out-of-state, is it classified as hazardous in the state of origin? [] Yes [X] No [] NA- Okla. waste

Approximate amount of waste to be disposed:		Disposal frequency:		Physical characteristics:	
1	[] Tons	[] Pounds	[X] One-time [] Weekly	[] Solid	[X] Liquid
	[] Cubic yards	[X] Drum	[] Monthly [] Annually	[] Sludge	[] Combination
	[] Other _____				

Method used to determine waste is non-hazardous: [] Analysis [] Generator knowledge [] Both

Process generating waste (be specific and use additional sheets if necessary):
Non-Haz waste liquid (water impacted with diesel) generated from cleaning out a storm drain.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

TMata

Generator Signature

Tamara Mata	Response Manager	October 19, 2015
Printed name	Title	Date

Adopted June 2003

DEQ Form # 515-860

MATERIAL SAFETY DATA SHEET

AMOCO NO. 2 DIESEL FUEL (FP)

MSDS No. 11147000 ANSI/ENGLISH

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AMOCO NO. 2 DIESEL FUEL (FP)

MANUFACTURER/SUPPLIER:

Amoco Oil Company
200 East Randolph Drive
Chicago, Illinois 60601 U.S.A.

EMERGENCY HEALTH INFORMATION:
1 (800) 447-8735

EMERGENCY SPILL INFORMATION:
1 (800) 424-9300 CHEMTREC (USA)

OTHER PRODUCT SAFETY INFORMATION:
(312) 856-3907

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	Range % by Wt.
Petroleum distillate	68476-30-2	95-100
Naphthalene	91-20-3	0-1
Xylene	1330-20-7	0-1

(See Section 8.0, "Exposure Controls/Personal Protection", for exposure guidelines)

3.0 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Warning! Combustible. Harmful or fatal if liquid is aspirated into lungs. Causes skin irritation on prolonged or repeated contact.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: No significant health hazards identified.

SKIN CONTACT: Causes skin irritation on prolonged or repeated contact. See "Toxicological Information" section (Section 11.0).

INHALATION: No significant health hazards identified for the liquid fuel. See "Toxicological Information" section (Section 11.0).

INGESTION: Harmful or fatal if liquid is aspirated into lungs. See "Toxicological Information" section (Section 11.0).

HMIS CODE: (Health:2) (Flammability:2) (Reactivity:0)

NFPA CODE: (Health:2) (Flammability:2) (Reactivity:0)

4.0 FIRST AID MEASURES

EYE: Flush eyes with plenty of water.

SKIN: Wash exposed skin with soap and water. Remove contaminated clothing, including shoes, and thoroughly clean and dry before reuse.

INHALATION: If adverse effects occur, remove to uncontaminated area.

INGESTION: If swallowed, do NOT induce vomiting. Get immediate medical attention.

5.0 FIRE FIGHTING MEASURES

FLASHPOINT: Greater than 141°F (61°C)

UEL: 7.5%

LEL: 0.6%

AUTOIGNITION TEMPERATURE: Not determined.

FLAMMABILITY CLASSIFICATION: Combustible Liquid.

EXTINGUISHING MEDIA: Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, foam, steam) or water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid.

FIRE-FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

PRECAUTIONS: Keep away from sources of ignition (e.g., heat and open flames). Use with adequate ventilation.

HAZARDOUS COMBUSTION PRODUCTS: Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

6.0 ACCIDENTAL RELEASE MEASURES

Remove or shut off all sources of ignition. Prevent spreading by diking, ditching, or absorbing on inert materials. Keep out of sewers and waterways.

7.0 HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Keep away from ignition sources (e.g., heat, sparks, or open flames). Ground and bond containers when transferring materials. Wash thoroughly after handling.

STORAGE: Store in combustible liquids storage area. Store away from heat, ignition sources, and open flame in accordance with applicable regulations.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE: None required; however, use of eye protection is good industrial practice.

SKIN: Avoid prolonged or repeated skin contact. Wear protective gloves if prolonged or repeated contact is likely.

INHALATION: Use with adequate ventilation.

ENGINEERING CONTROLS: Control airborne concentrations below the exposure guidelines.

EXPOSURE GUIDELINES:

Component	CAS#	Exposure Limits
Petroleum distillate	68476-30-2	No exposure limit established
Naphthalene	91-20-3	OSHA PEL: 10 ppm (1989)(1971) OSHA STEL: 15 ppm (1989); Not established. (1971) ACGIH TLV-TWA: 10 ppm ACGIH TLV-STEL: 15 ppm
Xylene	1330-20-7	OSHA PEL: 100 ppm (1989)(1971) OSHA STEL: 150 ppm (1989); Not established. (1971)

		ACGIH TLV-TWA: 100 ppm ACGIH TLV-STEL: 150 ppm

9.0 CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Liquid. Clear or red or blue or purple.

pH: Not determined.

VAPOR PRESSURE: Not determined.

VAPOR DENSITY: Not determined.

BOILING POINT: 340-675°F (approximate range)

MELTING POINT: Not determined.

SOLUBILITY IN WATER: Negligible, below 0.1%.

SPECIFIC GRAVITY (WATER=1): 0.85 to 0.88

VISCOSITY: 1.8-3.6cSt at 100°F

10.0 STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Keep away from ignition sources (e.g. heat, sparks, and open flames).

MATERIALS TO AVOID: Avoid chlorine, fluorine, and other strong oxidizers.

HAZARDOUS DECOMPOSITION: None identified.

HAZARDOUS POLYMERIZATION: Will not occur.

11.0 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA:

EYE IRRITATION: Testing not conducted. See Other Toxicity Data.

SKIN IRRITATION: Testing not conducted. See Other Toxicity Data.

DERMAL LD50: Testing not conducted. See Other Toxicity Data.

ORAL LD50: Testing not conducted. See Other Toxicity Data.

INHALATION LC50: Testing not conducted. See Other Toxicity Data.

OTHER TOXICITY DATA: Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and/or professional experience.

Middle distillate: From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact with this product in the absence of good personal hygiene. This particular product has not been tested for carcinogenic activity, but we have chosen to be cautious in light of the findings with other distillate streams.

Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practiced and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact. Personal hygiene measures taken to prevent skin irritation are expected to be adequate to prevent risk of skin cancer.

Materials of this type have been shown to produce kidney damage in male rats following prolonged inhalation exposures. Following extensive research, this effect appears to be unique to the male rat and is considered to be of little or no relevance in terms of human health risk.

This product has a sufficiently low vapor pressure to prevent a hazardous buildup of vapors unless the product is heated, used in a confined space with inadequate ventilation or misted. Inhalation of mist or high concentrations of vapors can produce dizziness, headache, and nausea and possibly irritation of the eye, nose and throat.

Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

NIOSH has recommended that whole diesel exhaust be regarded as a potential occupational carcinogen, based on findings of carcinogenic responses in laboratory animals exposed to whole diesel exhaust. The excess cancer risk for workers exposed to diesel exhaust has not been calculated; however, exposure should be minimized to reduce potential risk.

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).

12.0 ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13.0 DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations. Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances.

The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

14.0 TRANSPORTATION INFORMATION

U.S. DEPT OF TRANSPORTATION

Shipping Name	Diesel Fuel
Hazard Class	Combustible liquid.
Identification Number	NA1993
Packing Group	III

INTERNATIONAL INFORMATION:

Sea (IMO/IMDG)

Shipping Name Not determined.

Air (ICAO/IATA)

Shipping Name Not determined.

European Road/Rail (ADR/RID)

Shipping Name Not determined.

Canadian Transportation of Dangerous Goods

Shipping Name Not determined.

15.0 REGULATORY INFORMATION

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR Part 302.4): This product is exempt from the CERCLA reporting requirements under 40 CFR Part 302.4. However, if spilled into waters of the United States, it may be reportable under 33 CFR Part 153 if it produces a sheen.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): This product is defined as hazardous by OSHA under 29 CFR Part 1910.1200(d).

SARA TITLE III SECTION 313 (40 CFR Part 372): This product contains the following substance(s), which is on the Toxic Chemicals List in 40 CFR Part 372:

Component/CAS Number	Weight Percent
Xylene 1330-20-7	1
Naphthalene 91-20-3	1

U.S. INVENTORY (TSCA): Listed on inventory.

OSHA HAZARD COMMUNICATION STANDARD: Combustible liquid. Irritant.

EC INVENTORY (EINECS/ELINCS): Not determined.

JAPAN INVENTORY (MITI): Not determined.

AUSTRALIA INVENTORY (AICS): Not determined.

KOREA INVENTORY (ECL): Not determined.

CANADA INVENTORY (DSL): Not determined.

PHILIPPINE INVENTORY (PICCS): Not determined.

16.0 OTHER INFORMATION

Prepared by:

Environment, Health and Safety Department

Issued: March 28, 1994

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.

AMERICAN ENVIRONMENTAL
A Renewable Energy Landfill

American Environmental Landfill, Inc.

"Leading the Industry in Environmental Compliance"

(MUST BE FILLED OUT COMPLETELY)

For more information, please call American Environmental Landfill, Inc. at (918)245-7786

A. GENERATOR INFORMATION

1. Generator Name: Pepsi Bottling Company
2. Site Location: 1200 W Wilson St
3. City: Fayetteville
   State: AR Zip Code: 72701
4. Phone: 479-751-1900
5. Fax:
6. State Waste Code:

B. CUSTOMER BILLING INFORMATION

1. Billed to Name: Mid-America Environmental Solutions
2. Address: PO Box 737
3. City: Carthage
   State: MO Zip Code: 64836
4. Phone: 417-358-3599
5. Fax: 417-358-8332
6. Contact: David Palmer
7. Title: Technical Sales

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Non-Haz waste solid N.O.S. (absorbents impacted with diesel)
2. Detailed Decription of Process Generating Waste and Material Description: Absorbents impacted with diesel generated from clean up of diesel fuel spill on concrete parking lot
3. Industrial Generator: ☑ Yes ☐ No
4. Municipal Generator: ☐ Yes ☑ No
5. Physical State at 70°: ☑ Solid ☐ Semisold ☐ Liquid ☐ Powder ☐ Combination
6. Odor: ☑ Yes ☐ No Describe: diesel
7. Color: grey
8. pH Range: N/A
9. Flash Point: >200
10. Reactive: ☐ Yes ☑ No With:
11. Free Liquid: ☐ Yes ☑ No
12. Water content % by volume: <1%
13. Viscosity:
14. Is the analytical attached dervied from testing a representative sample IAW 40 CFR 261? ☐ Yes ☑ No
15. Does the waste contain radioactive or U.S.D.O.T. hazardous waste materials? ☐ Yes ☑ No

D. SUPPLEMENTAL INFORMATION

☐ None ☐ MSDS ☐ Analytical Data ☑ Process Knowledge Number of pages attached:

E. SHIPPING INFORMATION

1. Packaging: ☐ Bulk Liquid ☐ Bulk Solid ☑ Drum ☐ Other Shipping Frequency: 1
2. Estimated Volume: 7 ☐ Gallons ☐ Yards ☑ Drums Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, Tamara Mata am employed by PEPSICO/CEMS and am authorized to sign this request for PEPSICO/CEMS (Company Name) TMata (Signature) October 20, 2015 (Date)

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer
Date 10-21-15 ☑ Approved ☐ Rejected
Additional Information: NONE

Current WDA on file: ☑ Yes ☐ No
Job # MN191PBC02

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Pepsi Bottling Company

Mailing Address: 541 E Robinson City Springdale State AR Zip 727654

Point of Generation Address: 1200 W Wilson City Fayetteville State AR Zip 72701

Generator Contact: Brannon Pack Title _____ Telephone 817-980-1048

DETAILED WASTE DESCRIPTION

Waste Name: Non-Haz waste solid N.O.S. (absorbents impacted with diesel)

If waste was generated out-of-state, is it classified as hazardous in the state of origin? [] Yes [x] No [] NA- Okla. waste

Approximate amount of waste to be disposed:

7

[] Tons [] Pounds [x] One-time [] Weekly [] Solid [] Liquid
[] Cubic yards [x] Drum [] Monthly [] Annually [] Sludge [] Combination
[] Other _____

Disposal frequency: Physical characteristics:

Method used to determine waste is non-hazardous: [] Analysis [] Generator knowledge [] Both

Process generating waste (be specific and use additional sheets if necessary):
Absorbents impacted with diesel from cleaning up a diesel spill on a concrete parking lot.

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill Permit #: 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

TMata

Generator Signature

Tamara Mata | Response Manager | October 20, 2015

Printed name | Title | Date

Adopted June 2003

DEQ Form # 515-860

08010903

OK

V ph sludge small amt free liquids

OK

IMAGED AS RECEIVED

WM WASTE MANAGEMENT

Profile Addendum: State of Oklahoma NON-HAZARDOUS INDUSTRIAL WASTE NOTIFICATION/CERTIFICATION FORM

Generator Name: The Pepsi Bottling Group

Mailing Address: 510 West Skelly Drive

City: Tulsa State: OK Zip Code: 74107

Point of Generation

General Contact: Shane Rhoden Title:

Address: 510 West Skelly Drive City: Tulsa

State: OK Zip Code: 74107 Telephone: (918) 445-8022

Customer Information

Waste Name: Sediment Tank Sludge

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☑ NA-Okla Waste

The waste stream is: ☒ New ☑ Previously approved (Previous Approval Number [redacted])

Approximate amount of waste to be disposed under this disposal plan?

100-1000 ☐ Tons ☐ Pounds ☐ Cubic Yards ☐ Drum ☒ Other gallons

Disposal Frequency?

☑ One-time ☐ Weekly ☐ Monthly ☐ Annually

Physical Characteristics?

☐ Solid ☐ Sludge ☐ Liquid ☑ Combination

Method used to determine waste is non-hazardous: ☐ Analysis ☐ Generator Knowledge ☑ Both

Process generating waste (be specific and use additional sheets if necessary):

Chemicals are used to adjust alkalinity in the water before using in food grade products

Disposal Facility Information

Facility name: Quarry Landfill Permit #:

Generator Certification

I understand this form must be signed by the original waste generator and not waste brokers, transporters, contractors, or other intermediate handlers.

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Generator's Signature: Title:

Name: (Print) Date: 1/8/08

FOR DEQ USE ONLY: Approved by: Date:

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Generator's Nonhazardous Waste Profile Sheet

Requested Disposal Facility: Quarry RDF Profile Number: 101971OK

☐ Renewal for Profile Number _____ Waste Approval Expiration Date _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: The Pepsi Bottling Group
2. Site Address: 510 West Skelly Drive
3. City/ZIP: Tulsa, 74107
4. State: OK
5. County: _____
6. Contact Name/Title: Shane Rhoden
7. Email Address: shane.rhoden@pepsi.com
8. Phone: 918-445-8022 9. FAX: 918-445-8158
10. NAICS Code: _____
11. Generator USEPA ID #: _____
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: _____

1. Customer Name: The Pepsi Bottling Group
2. Billing Address: 510 West Skelly Drive
3. City, State and ZIP: Tulsa, OK, 74107
4. Contact Name: Shane Rhoden
5. Contact Email: shane.rhoden@pepsi.com
6. Phone: 918-445-8022 FAX: 918-445-8158
7. Transporter Name: _____
8. Transporter ID # (if appl.): _____
9. Transporter Address: _____
10. City, State and ZIP: _____

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Sediment Tank Sludge

State Waste Code(s): _____

b. Describe Process Generating Waste or Source of Contamination:
chemicals are used to adjust the alkalinity in the water before using in food grade products

c. Typical Color(s): OLIVE

d. Strong Odor? ☐ Yes ☑ No Describe: _____

e. Physical State at 70°F: ☐ Solid ☐ Liquid ☐ Powder ☐ Semi-Solid or Sludge ☑ Other: sludge with free liquid

f. Layers? ☐ Single Layer ☑ Multi-Layer ☐ NA

g. Water Reactive? ☐ Yes ☑ No If Yes, Describe: _____

h. Free Liquid Range (%): 10% to 30% ☐ NA(solid)

i. pH Range: ☐ <2 ☑ 2.1-12.4 ☐ >12.5 ☐ NA(solid) ☐ Actual: pH TAKEN EVERY 4 HRS. TO Monitor pH IS LESS than 12.5

j. Liquid Flash Point: ☐ < 140°F ☑ > 140°F ☐ NA(solid) ☐ Actual: _____

k. Flammable Solid: ☐ Yes ☑ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil, 0-80%, Wood 0-20%): ☑ (See Attached)

Components (Total Composition Must Be = 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. Water	85	%	95	%
2. Calcium Hydroxide (see msds)	5	%	10	%
3. Ferric Sulfate (see msds)	1	%	5	%
4.				
5.				
6.				

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ☑ Event ☐ Base/Ongoing (Check One)

b. Estimated Annual Quantity: 700-1000 ☐ Tons ☐ Cubic Yards ☐ Drums ☑ Gallons ☐ Other (specify): _____

c. Shipping Frequency: _____ Units per ☐ Month ☐ Quarter ☐ Year ☑ One Time ☐ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☐ Yes ☑ No

e. USDOT Shipping Description (if applicable): _____

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): _____

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WASTE MANAGEMENT

Generator's Nonhazardous Waste Profile Sheet

101671OK

D. Regulatory Status (Please check appropriate responses)

1. Is this a USEPA (40 CFR Part 261)/State hazardous waste? If yes, contact your sales representative. ☐ Yes ☑ No
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ☐ Yes ☑ No
   - ☐ Delisted Hazardous Waste
   - ☐ Excluded Wastes Under 40 CFR 261.4
   - ☐ Treated Hazardous Waste Debris
   - ☐ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ☐ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ☐ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ☐ Yes ☐ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ☐ Yes ☐ No
5. Does the waste represented by this waste profile sheet contain concentrations of regulated Polychlorinated Biphenyls (PCBs)? ☐ Yes ☑ No
   a. If yes, is disposal regulated under TSCA? ☐ Yes ☐ No
6. Does the waste contain untreated, regulated, medical or infectious waste? ☐ Yes ☑ No
7. Does the waste contain asbestos? ☐ Yes ☑ No If Yes, ☐ Friable ☐ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ☐ Yes ☑ No
   If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No

E. Generator Certification (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the Contractor if applicable).
5. Check all that apply:
   - ☐ Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: _____ # Pages: _____
   - ☐ Only the analyses identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   - ☒ Additional information necessary to characterize the profiled waste has been attached (other than analytical). Indicate the number of attached pages: 6
   - ☐ I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.
   - ☒ By Generator process knowledge, the following waste is not a listed waste and is below all TCLP regulatory limits.

Certification Signature: _____ Title: _____

Company Name: _____ Name (Print): _____

Date: _____

FOR WM USE ONLY

Management Method: ☐ Landfill ☐ Bioremediation ☐ Non-Hazardous solidification ☐ Other: _____

Approval Decision: ☐ Approved ☐ Not Approved

Waste Approval Expiration Date: _____

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

- ☐ Shall not contain free liquid
- ☐ Shipment must be scheduled into disposal facility
- ☐ Approval Number must accompany each shipment
- ☐ Waste Manifest must accompany load

WM Authorization Name / Title: _____ Date: _____

State Authorization (If Required): _____ Date: _____

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May 2007

THE PEPSI BOTTLING GROUP

FACSIMILE TRANSMITTAL SHEET

If you experience any problems with this FAX, please call:

918.445.8022

To:	*MONICA*	Fax:	*866-585-9595*
Company:	*Waste Management*	Phone:	
From:	*Shane Rhoden*	Fax:	*918.445.8158*
Company:	*PBG (Tulsa, Ok)*	Phone:	*918.445.8022*
Date:	*Jan 8, 2008*		

No. of Pages including cover sheet: 4

Monica,

Review the following.

Let me know if you need anything else.

Thanks,
Shane

E-mailed
Kim
1-9-08

Davis, Nicole

From: Crochet, Monica
Sent: Monday, January 07, 2008 12:47 PM
To: Davis, Nicole
Subject: Pepsi

Importance: High

Here is an MSDS that I need you to give to one of the chemists to look at and see if we can take at East Oak Landfill in OKC, OK. Thanks so much...

pepsimsd.PDF

MONICA CROCHET
TECHNICAL SERVICE REP.
WASTE MANAGEMENT
OFFICE (337) -583-3778
FAX (337) -583-3763 or 866-585-9595
mcrochet@wm.com
800-WMDISPOSAL (963-4776)
www.wmdisposal.com

WASTE MANAGEMENT'S RENEWABLE ENERGY PROJECTS CREATE ENOUGH ENERGY TO POWER OVER 1 MILLION HOMES.

Calcium Hydroxide - appears acceptable
bury immediately
no free liquids

Ferric Sulfate - D002 liquid
not acceptable

E-mailed to Appeals, Inc

THE PEPSI BOTTLING GROUP

FACSIMILE TRANSMITTAL SHEET

If you experience any problems with this FAX, please call:

918.445.8022

To:	*Kim Ward*	**Fax:**	*918-437-7805*
Company:	*Waste Management*	**Phone:**	*405-520-5274*
From:	*Shane Rhoden*	**Fax:**	*918.445.8158*
Company:	*PBG (Tulsa, Ok)*	**Phone:**	*918.445.8022*
Date:	*Jan 3, 2008*		

No. of Pages including cover sheet: 7

Kim,

Attached are the MSDS sheets for the Calcium Hydroxide (Lime) & the Ferric Sulfate.

Let me know if you need anything else.

Thanks,
Shane

PEPSI Friday, November 12, 2004
PEPSI Tuesday, September 14, 2004

MISSISSIPPI LIME COMPANY – MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION

PRODUCT IDENTIFICATION	CHEMICAL ABSTRACT NUM.	DATE REVISED
CALCIUM HYDROXIDE (CODEX) Snowflake ®	CAS No. 1305-62-0	01/01/2002

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid – NA
	Stable	X	
Incompatibility (Materials to Avoid)		Acids, Fluorine	
Hazardous Decomposition or Byproducts		None	
Hazardous Polymerization	May Occur		Conditions to Avoid – NA
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of Entry	Inhalation? – YES	Absorption Through Skin? – YES	Ingestion (swallowing)? – YES
Health Hazards	Acute	Corrosive to skin and eyes. Causes irritation and inflammation to mucous membrane and respiratory passages.	
	Chronic		

Carcinogenicity Calcium Hydroxide	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure	Irritation of skin, eyes and respiratory tract.
Medical Conditions Generally Aggravated by Exposure	Respiratory disease, skin condition.
Emergency and First Aid Procedures	Remove to fresh air. Wash skin with soap and water. Flush out eyes with generous amounts of water. Drink plenty of water if swallowed. See Physician.

Section VII – Precautions for Safe Handling

Steps to Be Taken in Case Material is Released or Spilled	Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended.
Waste Disposal Method	Dispose of product in accordance with Federal, State and Local regulations.
Precautions to Be Taken in Handling	Store away from incompatible substances.
Other Precautions	None.

Section VIII – Control Measures

Respiratory Protection – Dust filter mask is recommended as minimal protection

Ventilation	Local Exhaust – To maintain TLV's and PEL's Mechanical – To maintain TLV's and PEL's	Special – None Other – None

Protective Gloves – Cloth or leather gloves will protect skin
Eye Protection – Fitted goggles will reduce eye injury
Other Protective Clothing – Long sleeve shirts and pants
Work / Hygienic Practices – Maintain dust exposure limits below TLV and PEL. If not possible then use respiratory protection.

Section IX – Regulatory Compliance

Listed on the U.S. EPA TSCA Inventory and not regulated as a hazardous material by the Department of Transportation (DOT).

PEPSI Friday, November 12, 2004
PEPSI Tuesday, September 14, 2004

MISSISSIPPI LIME COMPANY – MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION

PRODUCT IDENTIFICATION	CHEMICAL ABSTRACT NUM.	DATE REVISED
CALCIUM HYDROXIDE (CODEX) Snowflake ®	CAS No. 1305-62-0	01/01/2002

Section I

MANUFACTURER	24 Hour Emergency Contact Number: (800) 437-5463	HMIS RATING
Mississippi Lime Company 3923 South Lone Pine Springfield, Missouri 65804	Telephone Number for Information: (800) 437-5463	Health - 2 Flammability - 0 Instability (React) - 0 Protective Equip - E
	Contact: J. S. Castleberry	

Section II – Hazardous Ingredients / Identity Information

Hazardous Components

Specific Chemical Identity / Common Name	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Calcium Hydroxide; Slaked Lime	5 mg/m³	5 mg/m³		

Calcium Hydroxide is not listed on the NTP, IARC, or OSHA lists of carcinogens. Mississippi Lime Company recommends using personal protection equipment when handling this product.

Section III – Physical / Chemical Characteristics

Boiling Point (Calcium Oxide)	5162 °F	Specific Gravity (H_2O) = 1)	2.2
Vapor Pressure (mm Hg)	NA	Melting Point	1076 °F
Vapor Density (Air = 1)	NA	Evaporation Rate	NA
Solubility in Water	0.185% @ 0° C; 0.077% @ 100° C		
Appearance and Color	White powder; odorless		

Section IV – Fire and Explosion Hazard Data

Flash Point	NA	Flammable Limits – NA
Extinguishing Method	NA	
Special Fire Fighting Procedures	NA	
Unusual Fire and Explosion Hazards	NA	

FINI ENTERPRISES, INC.
P.O. BOX 606
CELINA, TEXAS 75009
(972) 382-2381
(800) 441-2999
(972) 382-3211 (FAX)

187 J.J HOLCOMB ROAD
NICHOLSON, MS 39469

1551 MALLARD LANE
KLAMATH FALLS, OR 97601

URL: http://www.fe3.com
EMAIL: fe3@waymark.net

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Manufacturer's Name: Fe-3, Inc.	Regular Telephone No. 1 (972) 382-2381 Emergency Telephone No. (800) 424-9300
Address: Business Rt. 289 North, Celina, Texas 75009	
Trade Name: Fe^3	
Synonyms: FERRIC SULFATE SOLUTION	
Shipping Name: DOT: CORROSIVE LIQUID, N.O.S. CORROSIVE MATERIAL (LIQUID FERRIC SULFATE—50% WATER NA 3264)	

II. HAZARDOUS INGREDIENTS

Material or Component (Typical)	Cas No.	% w/w	Hazard Data
Ferric Sulfate	10028-22-5	49.0	**Health hazard:** Product is toxic orally, is corrosive to the eye, and will burn the skin.
Free Sulfuric Acid	7664-93-9	.5-1.0	
Water (balance of formulation)			**Aquatic toxicity:** Ferric sulfate is listed as toxic to aquatic life, Category C. 40 CFR Parts 116-118.

III. PHYSICAL DATA

Boiling Point, 750 mm hg	Approx. 212°F	Freezing Point: Does not freeze at 0°F
Specific Gravity (H_2O=1)	1.400 to 1.455	Vapor Pressure: NA
Vapor Density (Air-1)	NA	Solubility in H_2O% by Wt. Infinite
% Volatiles by Vol.	NA	Evaporation Rate (Butyl Acetate - 1)
Appearance and Odor	Red-Brown solution. No detectable odor.	Ph (as is) Approximately 1.0 Ph (1% soln) Approximately 1.8

IV. FIRE AND EXPLOSION DATA

Flash Point (Test Method)	N.A.	Autoignition Temperature	N.A.
Flammable Limits in Air, % by Vol.	Lower N.A.	Upper N.A.	
Extinguishing Media	Product does not burn or support flame. If product is present in a fire, water, CO_2 or dry chemical may be used. Product is highly acidic and if in open container avoid splashing.		
Special Fire Fighting Proc.	Do not allow product or water containing product to enter a navigable stream. At temperatures above 600° C, product decomposes to iron oxide and sulfur trioxide.		
Unusual Fire & Explosion Hazard.	None known.		

V. HEALTH HAZARD INFORMATION

Health Hazard Data	Hazard Classification	Basis for Classification	Source
Routes of Exposure Inhalation	Not determined, but expected to be low due to other toxicological tests, physical and chemical characteristics.	NA	NA
Skin Contact	Not a primary skin irritant by FHSA standards.	Primary dermal irritation index = 0.0 for 24 and 72 hours.	Laboratory test in accord with FHSA procedure.
Skin Absorption	Not toxic dermally by FHSA standards.	Est. dermal LD_{50} (Rabbit) - (Male) Greater than 2.0 g/kg body weight (Female) Greater than 2.0 g/kg body weight	Laboratory test in accord with FHSA procedure
Eye Contact	Corrosive to the eye by by FHSA standards.	Eye irritation scores: 24 hours. . . . . 45.2 48 hours. . . . . 56.2 72 hours. . . . . 56.3 7 days 63.4	Laboratory tests in accord with FHSA procedure.
Ingestion	Toxic by FHSA standards.	Oral LD_{50}. (Rats-male) - Between 2.5 and 5.0 g/kg body weight. (Rats-female) = Between 2.5 and 5.0 g/kg body weight.	Laboratory tests accord with FHSA procedure.

EFFECTS OF OVEREXPOSURE:

Acute Overexposure: None known except as listed in Section V above.
Chronic Overexposure: None known except as listed in Section V above.

EMERGENCY AND FIRST AID PROCEDURES

EYES	Immediately irrigate with large amounts of water for at least 15 minutes. Hold eyelids apart during irrigation. Send patient to a physician immediately.
SKIN	Flush with water while removing clothing and shoes. Continue to flush for at least 15 minutes. Call a physician Wash clothes before reuse.
INHALATION	Remove from area and give artificial respiration if needed and seek medical assistance.
INGESTION	Treat as a corrosive liquid. Drink large quantities of water or milk to reduce concentration and neutralize acid. Do not induce vomiting. Call physician immediately.

VI. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY:
None Known.

INCOMPATIBILITY:
Product solution is corrosive to mild steel, copper, copper alloys and galvanized steel. May be corrosive to paints, enamels, and concrete. Reacts with lime and other basic materials to form insoluble iron salts.

HAZARDOUS DECOMPOSITION PRODUCTS:
None normally. At temperatures above 600° C, sulfur trioxide may be released.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:
None known.

VII DISPOSAL, SPILL OR LEAK PROCEDURE

AQUATIC TOXICITY (e.g., 96 HR. TLM):
No data is known to be available. EPA has rated ferric sulfate in Category C in the Waters Program hazardous substance list in 40 CFR Parts 116-118

WASTE DISPOSAL METHOD:
Neutralize with lime, soda ash, or bicarbonate and remove to approved landfill.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Prohibit product from running into streams or navigable waters. Neutralize and remove to approved landfill. Wash down spill area with water. Check with waste treatment plant before flushing down large amounts of spilled product.

NEUTRALIZING CHEMICALS:
Lime (calcium carbonate, calcium hydroxide, calcium oxide), soda ash or sodium bicarbonate.

VIII. SPECIAL PROTECTION INFORMATION:

VENTILATION REQUIREMENTS:
No special ventilation is believed to be necessary under normal use conditions.

SPECIFIC PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY:
None known necessary under normal use. If mists occur, or may occur, use a respirator having an activated carbon filter suitable for sulfuric acid mists.

EYE:
Chemical goggles should be worn when handling this product as it is corrosive to the eye.

GLOVES
Chemical or rubber gloves should be worn.

OTHER CLOTHING AND EQUIPMENT:
Acid resistant clothing is recommended. Safety shoes are recommended when handling product in drums.

IX. SPECIAL PRECAUTIONS:

There should be a substance placard with UN3264, being of Hazard Class 8 and packing group III. 8, UN3264, III

PRECAUTIONARY STATEMENTS:
Product is corrosive to mild steel and containers should bear a corrosive D.O.T. label. There should be a substance placard with UN3264.

OTHER HANDLING AND STORAGE REQUIREMENTS:
Liquid Ferric Sulfate solution is corrosive to mild steel. Storage and equipment materials should include fiberglass, reinforced plastics, plastics, rubber, lead, type 304 or better grades of stainless steel.

ADDITIONAL REGULATORY CONCERNS:

FEDERAL:

FDA.

USDA:

CPSC:

TSCA: Is this product, or all its ingredients, being certified for inclusion on the Toxic Substances Control Act inventory of chemical substances? YES.

OTHER: The ferric sulfate meets the AWWA standard for Ferric Sulfate in potable water. Standard AWWA B406-97

STATE:

OSHA: Product is a hazardous material as defined by 29 CFR Paragraph 1910, 1200 because it is corrosive to the eye.
Product *is not* listed by the National Toxicology Program, the International Agency for Research on Cancer, nor the Registry of Toxic Effects of Chemical Substances (1981-82) as a carcinogen or potential carcinogen.

SARA TITLE III: Product contains the following listed toxic chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 (SARA TITLE III) and 40 CFR, Part 372.

Listed Toxic Chemical	CAS#	Max % By Wgt.
None	N/A	N/A

RQ, CORROSIVE LIQUID
ACIDIC, INORGANIC, N.O.S.
8, UN3264, PG III
RQ = 1,000 Lbs.
LIQUID FERRIC SULFATE

Waste Management of Texas and Oklahoma

RUSH ✓✓

Special Waste Remarks Page

Reason for Rush: _____

Tracking Number/Profile Number_____

WMI Contact Monica Crochet

Customer [illegible]

Generator [illegible]

Sales Rep. Kim Ward

Landfill [illegible]

Waste Name [illegible]

Date	Time	Remarks
[illegible]		

Reviewed by: Wendy Harrison Rene' Cruz

Forwarded to_____

08071707

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NON-HAZARDOUS INDUSTRIAL WASTE NOTIFICATION/CERTIFICATION FORM

Please read instructions prior to completing this form.

IMAGED AS RECEIVED

Generator Name: The Pepsi Bottling Group
Mailing Address: 616 West Skelly Drive City Tulsa State OK Zip 74107
Point of Generation Address: 616 West Skelly Drive City Tulsa State OK Zip 74107
Generator Contact: Shane Rhoden Title Telephone 918-445-8022

DETAILED WASTE DESCRIPTION

Waste Name: Sediment Tank Sludge

If waste was generated out-of-state, is it classified as hazardous in the state of origin? [ ] Yes [ ] No [X] NA-Okla Waste

This waste stream is: [ ] New [X] Previously approved (previous approval number: QO-150306OK)

Approximate amount of waste to be disposed under this disposal plan: 2,000

[ ] Tons [ ] Pounds [X] Other Gallons
[ ] Cubic yards [ ] Drum

Disposal frequency: [ ] One-time [ ] Weekly [ ] Monthly [X] Annually

Physical characteristics: [ ] Solid [X] Liquid [X] Sludge [X] Combination

Method used to determine waste is non-hazardous: [ ] Analysis [ ] Generator knowledge [X] Both

Process generating waste (be specific and use additional sheets if necessary):
Chemicals are used to adjust alkalinity in the water before using in food grade products

DISPOSAL FACILITY INFORMATION

Facility name: Quarry Landfill Permit #: 3572042

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator and not waste brokers, transporters, contractors, or other intermediate handlers.

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Generator Signature | Shane Rhoden (Printed name) | QC Supv. (Title) | 7/16/08 (Date)

[redacted]

ATTN KIM WARD 2 pgs.

Profile Addendum: State of Oklahoma

RECERTIFICATION OF GENERATOR'S WASTE PROFILE SHEET

E. Additional Waste Stream Information

Profile #: OO-100508OK Expiration/renewal Date:

A. GENERATOR INFORMATION

1. Generator Name: Papel Bottling Group
2. Address: 510 West Skelly Drive, Tulsa, OK 74107
3. Technical Contact: Shane Rhoden
4. Telephone: 918-445-8022 Fax #: 918445-8158

B. BILLING INFORMATION - Optional (Mail WM Invoices To:)

1. Company Name: Same as above
2. Address:
3. Contact: Title:
4. Telephone: P.O. Box:
5. Special Billing Requirements:

RECERTIFICATION INFORMATION

1. Waste Name: Sediment Tank Sludge
2. Have you obtained any laboratory analysis of this waste within the past year? ☑ Yes ☐ No
3. Have you changed the raw materials used in the waste generating process or the waste generating process itself? ☐ Yes ☑ No
4. Is the laboratory analysis and/or other pertinent information previously submitted still representative of the waste as presently generated? ☑ Yes ☐ No

NOTE: IF YOU ANSWERED YES TO QUESTION 2 OR 3 LISTED ABOVE, PLEASE ATTACH APPROPRIATE DOCUMENTATION.

D. RECERTIFICATION STATEMENT. Green Country - 1123/08 6 Pages

By signing this form, the generator hereby certifies: The information provided in this document, the attached Waste Management Generator's Waste Profile Sheet, and all other attached documents contain true and accurate descriptions of this waste material. All new information regarding known or suspected hazards in the possession of the generator has been disclosed. The Generator hereby certifies this waste is not a "Hazardous Waste" as defined by the USEPA or Canadian Federal regulation and/or the state/province and this waste does not contain regulated radioactive materials or regulated concentrations of PCB's.

Name: (Print) SHANE RHODEN Title: QC Supv.

Signature: Date: 1-16-08

WM Approval: Date:

©2006 Waste Management, Inc.

6825 East 38th Street
Tulsa, Oklahoma 74145-7105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

Shane Rhoden
Pepsi-Cola of Tulsa
510 W. Skelly Drive
Tulsa, OK 74107
TEL: (918) 445-8022
FAX (918) 445-8158

January 23, 2008
Order No.: T08010095

ATTN: KIM WARD
6 pages TOTAL

RE: Sample

Dear Shane Rhoden:

Green Country Testing, Inc. received 1 sample on 1/9/2008 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analysis was conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604
AR - ADEQ
KS - E-10232
LA - 4002

A scope of Certified/A[illegible] parameters is available upon request. If you have any questions regarding these tests results, p[illegible]e to call.

Sincerely,

Brian Duzan

Approved By:
Brian Duzan, Director
Environmental Services

IMAGED AS RECEIVED

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

CLIENT:	Pepsi-Cola of Tulsa	**Client Sample ID:**	Treated H2O Waste Sludge
Lab Order:	T08010095	**Tag Number:**	
Project:	Sample	**Collection Date:**	1/9/2008 10:51:00 AM
Lab ID:	T08010095-01A	**Matrix:**	SLUDGE
Date Received:	09-Jan-08	**Date Reported:**	23-Jan-08

Analyses	Result	Detection Limit	Permit Limit	Units	Date Analyzed	Analyst
CORROSIVITY BY PH		**SW9045B**				**PB**
Ph	10.16	0.100		pH Units	1/22/2008 2:48:00	
MERCURY, TCLP LEACHED		**SW7471**				**KR**
Mercury	0.00039	0.00010	0.2	mg/L	1/11/2008	
IGNITABILITY		**SW1010**				**SW**
Ignitability	>200	80.00		°F	1/21/2008	
CYANIDE, REACTIVE		**SW7.3.3.2**				**KP**
Reactive Cyanide	ND	0.020		ppm	1/21/2008 2:30:00	
SULFIDE, REACTIVE		**SW7.3.4.2**				**KP**
Reactive Sulfide	ND	0.050		ppm	1/16/2008 9:24:00	
PERCENT SOLIDS		**E160.3**				**MP**
Percent Solids	5.16	0.100		wt%	1/10/2008 4:20:00	
ICP METALS, TCLP LEACHED		**SW1311/6010A**				**KR**
Arsenic	< 0.200	0.200	5	mg/L	1/14/2008 1:56:36	
Barium	< 0.100	0.100	100	mg/L	1/14/2008 1:56:36	
Cadmium	< 0.100	0.100	1	mg/L	1/14/2008 1:56:36	
Chromium	< 0.100	0.100	5	mg/L	1/14/2008 1:56:36	
Lead	< 0.0500	0.0500	5	mg/L	1/14/2008 1:56:36	
Nickel	< 0.100	0.100		mg/L	1/14/2008 1:56:36	
Selenium	< 0.200	0.200	1	mg/L	1/14/2008 1:56:36	
Silver	< 0.0200	0.0200	5	mg/L	1/14/2008 1:56:36	

This document shall not be reproduced, except in full, without the written approval of Green Country Testing, Inc.

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

CLIENT: Pepsi-Cola of Tulsa
Work Order: T08010095
Project: Sample

QC SUMMARY REPORT

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
CORROS	Ph	R34158	LCS	9.01	0.1	pH Units	100	
	Ph	R34158	DUP	10.18	0.1	pH Units	0	0.197
HG_WW	Mercury	R34058	MBLK	< 0.00010	0.0001	mg/L		
	Mercury	R34058	LCS	0.001012	0.0001	mg/L	101	
	Mercury	R34058	MS	0.000969	0.0001	mg/L	96.9	
	Mercury	R34058	MSD	0.001006	0.0001	mg/L	101	3.75
IGN_W	Ignitability	R34144	MBLK	ND	80	°F		
	Ignitability	R34144	LCS	81	80	°F	102	
	Ignitability	R34144	DUP	ND	80	°F	0	
met_ww_icpt	Antimony	3952	mblk	< 0.010	0.01	mg/L		
	Arsenic	3952	mblk	< 0.0050	0.005	mg/L		
	Barium	3952	mblk	< 0.010	0.01	mg/L		
	Beryllium	3952	mblk	< 0.010	0.01	mg/L		
	Boron	3952	mblk	< 0	0	mg/L		
	Cadmium	3952	mblk	< 0.0010	0.001	mg/L		
	Calcium	3952	mblk	< 0.050	0.05	mg/L		
	Chromium	3952	mblk	< 0.010	0.01	mg/L		
	Cobalt	3952	mblk	< 0.010	0.01	mg/L		
	Copper	3952	mblk	< 0.010	0.01	mg/L		
	Iron	3952	mblk	< 0.050	0.05	mg/L		
	Lead	3952	mblk	< 0.0050	0.005	mg/L		
	Magnesium	3952	mblk	< 0.050	0.05	mg/L		
	Manganese	3952	mblk	< 0.010	0.01	mg/L		
	Molybdenum	3952	mblk	< 0.010	0.01	mg/L		
	Nickel	3952	mblk	< 0.010	0.01	mg/L		
	Potassium	3952	mblk	< 0.050	0.05	mg/L		
	Selenium	3952	mblk	< 0.0050	0.005	mg/L		
	Silicon	3952	mblk	< 0	0	mg/L		
	Silver	3952	mblk	< 0.0020	0.002	mg/L		
	Thallium	3952	mblk	< 0.010	0.01	mg/L		
	Tin	3952	mblk	< 0.10	0.1	mg/L		
	Titanium	3952	mblk	< 0.010	0.01	mg/L		
	Vanadium	3952	mblk	< 0.010	0.01	mg/L		
	Zinc	3952	mblk	< 0.010	0.01	mg/L		
	Antimony	3952	lcs	1.937	0.01	mg/L	96.9	
	Arsenic	3952	lcs	1.91	0.005	mg/L	95.5	
	Barium	3952	lcs	1.908	0.01	mg/L	95.4	
	Beryllium	3952	lcs	1.981	0.01	mg/L	99.1	
	Boron	3952	lcs	< 0	0	mg/L	0	
	Cadmium	3952	lcs	1.96	0.001	mg/L	98	
	Calcium	3952	lcs	2.045	0.05	mg/L	102	
	Chromium	3952	lcs	1.994	0.01	mg/L	99.7	
	Cobalt	3952	lcs	1.984	0.01	mg/L	99.2	
	Copper	3952	lcs	2.013	0.01	mg/L	101	
	Iron	3952	lcs	1.993	0.05	mg/L	99.6	

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

QC SUMMARY REPORT

CLIENT: Pepsi-Cola of Tulsa
Work Order: T08010095
Project: Sample

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
	Lead	3952	lcs	1.953	0.005	mg/L	97.6	
	Magnesium	3952	lcs	2.006	0.05	mg/L	100	
	Manganese	3952	lcs	2.005	0.01	mg/L	100	
	Molybdenum	3952	lcs	1.999	0.01	mg/L	99.9	
	Nickel	3952	lcs	1.973	0.01	mg/L	98.6	
	Potassium	3952	lcs	1.897	0.05	mg/L	94.8	
	Selenium	3952	lcs	1.862	0.005	mg/L	93.1	
	Silicon	3952	lcs	< 0	0	mg/L	0	
	Silver	3952	lcs	0.1976	0.002	mg/L	98.8	
	Thallium	3952	lcs	1.962	0.01	mg/L	98.1	
	Tin	3952	lcs	1.958	0.1	mg/L	97.9	
	Titanium	3952	lcs	2.007	0.01	mg/L	100	
	Vanadium	3952	lcs	1.99	0.01	mg/L	99.5	
	Zinc	3952	lcs	1.96	0.01	mg/L	98	
	Antimony	3952	ms	2.034	0.01	mg/L	102	
	Arsenic	3952	ms	2.021	0.005	mg/L	101	
	Barium	3952	ms	2.038	0.01	mg/L	100	
	Beryllium	3952	ms	2.039	0.01	mg/L	102	
	Boron	3952	ms	< 0	0	mg/L	0	
	Cadmium	3952	ms	2.002	0.001	mg/L	100	
	Calcium	3952	ms	46.88	0.05	mg/L	131	
	Chromium	3952	ms	2.023	0.01	mg/L	101	
	Cobalt	3952	ms	1.998	0.01	mg/L	99.9	
	Copper	3952	ms	2.053	0.01	mg/L	103	
	Iron	3952	ms	2.147	0.05	mg/L	107	
	Lead	3952	ms	1.96	0.005	mg/L	98	
	Magnesium	3952	ms	5.328	0.05	mg/L	104	
	Manganese	3952	ms	2.054	0.01	mg/L	102	
	Molybdenum	3952	ms	2.068	0.01	mg/L	103	
	Nickel	3952	ms	1.994	0.01	mg/L	99.7	
	Potassium	3952	ms	22.28	0.05	mg/L	120	
	Selenium	3952	ms	1.969	0.005	mg/L	98.5	
	Silicon	3952	ms	< 0	0	mg/L	0	
	Silver	3952	ms	0.1981	0.002	mg/L	99.1	
	Thallium	3952	ms	1.997	0.01	mg/L	99.9	
	Tin	3952	ms	2.003	0.1	mg/L	100	
	Titanium	3952	ms	2.035	0.01	mg/L	102	
	Vanadium	3952	ms	2.048	0.01	mg/L	102	
	Zinc	3952	ms	2.055	0.01	mg/L	102	
	Antimony	3952	msd	2.044	0.01	mg/L	102	0.47
	Arsenic	3952	msd	2.029	0.005	mg/L	101	0.417
	Barium	3952	msd	2.071	0.01	mg/L	102	1.57
	Beryllium	3952	msd	2.052	0.01	mg/L	103	0.608
	Boron	3952	msd	< 0	0	mg/L	0	0
	Cadmium	3952	msd	2.014	0.001	mg/L	101	0.584
	Calcium	3952	msd	47.89	0.05	mg/L	182	2.17
	Chromium	3952	msd	2.033	0.01	mg/L	102	0.472
	Cobalt	3952	msd	2.013	0.01	mg/L	101	0.707
	Copper	3952	msd	2.069	0.01	mg/L	103	0.778

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

QC SUMMARY REPORT

CLIENT: Pepsi-Cola of Tulsa
Work Order: T08010095
Project: Sample

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
	Iron	3952	msd	2.106	0.05	mg/L	105	1.9
	Lead	3952	msd	1.965	0.005	mg/L	98.3	0.271
	Magnesium	3952	msd	5.365	0.05	mg/L	105	0.67
	Manganese	3952	msd	2.067	0.01	mg/L	103	0.636
	Molybdenum	3952	msd	2.072	0.01	mg/L	104	0.304
	Nickel	3952	msd	2.002	0.01	mg/L	100	0.417
	Potassium	3952	msd	22.67	0.05	mg/L	140	1.73
	Selenium	3952	msd	1.964	0.005	mg/L	98.2	0.278
	Silicon	3952	msd	< 0	0	mg/L	0	0
	Silver	3952	msd	0.1993	0.002	mg/L	99.7	0.602
	Thallium	3952	msd	1.999	0.01	mg/L	100	0.107
	Tin	3952	msd	2.024	0.1	mg/L	101	1.03
	Titanium	3952	msd	2.047	0.01	mg/L	102	0.602
	Vanadium	3952	msd	2.065	0.01	mg/L	103	0.446
	Zinc	3952	msd	2.065	0.01	mg/L	103	0.465
REACTCN	Reactive Cyanide	R34146	MBLK	ND	0.02	ppm		
	Reactive Cyanide	R34146	LCS	0.134	0.02	ppm	107	
	Reactive Cyanide	R34146	MS	0.077	0.02	ppm	61.6	
	Reactive Cyanide	R34146	MSD	0.077	0.02	ppm	61.6	0
REACTS	Reactive Sulfide	R34098	MBLK	ND	0.05	ppm		
	Reactive Sulfide	R34098	LCS	0.793	0.05	ppm	99.1	
	Reactive Sulfide	R34098	MS	0.267	0.05	ppm	33.4	
	Reactive Sulfide	R34098	MSD	0.254	0.05	ppm	31.8	4.99
SOLIDS	Percent Solids	R34051	DUP	6.26	0.1	wt%	0	1.92

—1 918 437 7805 QUARRY LAND FILL 07/16/2008 13:30 9184458158 BP LAB 07-16-2008 12:21:04 p.m. PAGE 01 7/9

Green Country TESTING — Chain of Custody Record

Laboratory Number: T0801009S

Company Name: Pepsi - Tulsa
Contact Name:
Address: 810 W. Skelly Dr.
City, State, Zip:
Phone Number: Ext: Ext:
Fax Number:
Email Address:

Billing Information:
PO Number:
Quote Number:
Required QC Level
Bill Monthly ☐ Yes ☒ No

Project Name/Number:
Sampler's Signature
Shipping Method: UPS / FedEx / Airborne DHL / GCT / Hand / Mail

Page of
Turn Time
☒ Standard
☐ 1 Day
☐ 2 Day
☐ Other
(Rush turn times will incur a surcharge and must be pre-approved by lab.)

Which Regulations Apply:
☐ RCRA ☐ Drinking Water
☐ POTW ☐ Distribution
☐ NPDES ☐ Special
☐ USDA/FDA ☐ State
☐ RECAP/RISC ☐ Other

Matrix Code: AQ = Aqueous, O = Oil, DW = Drinking, SL = Sludge, WW = Waste, F = Food, MW = Monit. Well, SW = Swab, LQ = Liquid, SOL = Solid

Sample ID/Description	Date	Time	Grab / Composite	Matrix	Container Quantity	Container Type P=Plastic G=Glass, V=Vial	Preservative HCl, HNO3, H2SO4, NaOH, H3PO4, None	Requested Tests	Comments
Treated H2O Waste Sludge	7/9/08	10:51	G	SL	1	P	NA	TCLP Metals PCT	

Relinquished by: Date/Time: Received by: Date/Time:

Field Notes:

Received on ice? ☒ Yes ☐ No
Temp: 4°

All samples submitted to Green Country Testing for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Green Country Testing reserves the right to return unused sample portions.

Green Country Testing
6825 East 38th Street • Tulsa, OK 74145
918-828-9977 • Fax (918) 828-7756

Part 1 - Laboratory Copy Part 2 - Report Copy Part 3 - Client's Temporary Copy

Waste Management of Texas and Oklahoma

RUSH √√

Special Waste Remarks Page

Reason for Rush: Shipping today! 7-16-08

Tracking Number/Profile Number Q0-100306 OK

WMI Contact Monica Crochet

Customer Pepsi Bottling Group

Generator Pepsi Bottling Group

Sales Rep. Kim Ward

Landfill Quarry

Waste Name Sediment Tank Sludge

Date	Time	Remarks
7/16/08	13:50	Recert -

Reviewed by: Wendy Harrison Clay Pfluger

Forwarded to

04020215

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NON-HAZARDOUS INDUSTRIAL WASTE NOTIFICATION/CERTIFICATION FORM

Please read instructions prior to completing this form.

DISPOSAL PLAN BY RULE | INDIVIDUAL DISPOSAL PLAN REQUEST FOR DISPOSAL | GENERAL DISPOSAL PLAN REQUEST FOR APPROVAL

Generator Name: The Pepsi Bottling Group

Mailing Address: 14501 N Kelley Ave City Oklahoma City State Ok Zip 73114

Point of Generation Address: OKC/Same City _____ State ___ Zip _____

Generator Contact: James Kinsey Title Product Mgr Telephone (405) 748-7530

DETAILED WASTE DESCRIPTION

Waste Name: Outdated or Non-Saleable product Pop

If waste was generated out-of-state, is it classified as hazardous in the state of origin? ☐ Yes ☐ No ☒ NA- Okla. waste

This waste stream is: ☒ New ☐ Previously approved (previous approval number: _____)

Approximate amount of waste to be disposed under this disposal plan: 400

☐ Tons ☐ Pounds ☒ Cubic yards ☐ Drum ☐ Other _____

Disposal frequency:

☐ One-time ☐ Weekly ☒ Monthly ☐ Annually

Physical characteristics:

☒ Solid ☐ Liquid ☐ Sludge ☐ Combination

individual pop cans

Method used to determine waste is non-hazardous: ☐ Analysis ☐ Generator knowledge ☐ Both

Process generating waste (be specific and use additional sheets if necessary):

Customer disposing of household product

DISPOSAL FACILITY INFORMATION

Facility name: Southeast OKC Landfill Permit #: 3555-028

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator and not waste brokers, transporters, contractors, or other intermediate handlers.

To the best of my knowledge, I certify:

- The information contained herein is accurate, complete, and representative of the waste to be disposed;
- The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and
- This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.

Generator Signature	Printed name	Title	Date
[signature]	James Kinsey	Operations Mgr	1/29/04

For DEQ use only: Approved by: _____ Date: _____

Facility Name: Pepsi Beverages Company (Tulsa)

****
****

FACILITY IDENTIFICATION:
Pepsi Beverages Company (Tulsa)
Dept:
510 W. Skelly Drive
Tulsa, OK 74105 USA
County: Tulsa
Number of employees: 390
Latitude: 36.088889
Longitude: -95.996111
Method: OT - Other
Description: PG - Plant Entrance (General)

IDENTIFICATION NUMBERS:
Dun & Bradstreet: 17-637-8487
NAICS: 312111 (Soft Drink Manufacturing)

CONTACT INFORMATION:

Company, Pepsi Beverages
Title: Owner/Operator Contact Type 1: Owner / Operator
Address: 510 W Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-446-6601

Kelsey, Kevin
Title: Plant Director Contact Type 1: Emergency Contact
Address: , Broken Arrow, OK, USA
Phones: Work: 918-445-8012 24-hour: 918-408-6093
Email: kevin.kelsey@pepsico.com

Sproles, Barron
Title: Maintenance Mgr Contact Type 1: Emergency Contact
Address: , Bixby, OK, USA
Phones: Work: 918-445-8013 24-hour: 918-830-2034
Email: barron.sproles@pepsico.com

CHEMICAL DESCRIPTIONS:
[x] All chemicals in inventory are identical to last year's submission
---

CHEM NAME: Ammonia (Annhydrous)
CAS: 7664-41-7
[x] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [x] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 3 (1,000 - 9,999 pounds)

Avg Daily Amt code: 3 (1,000 - 9,999 pounds)
Max quantity in largest container: 3500 pounds
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: L Pressure: 1 Temp: 4 Location: South of Bottle Plant Amount: pounds
Container Type: L Pressure: 1 Temp: 4 Location: West of Can Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Argon-Nitrogen Gas Mixture
CAS: 7727-37-9
[x] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 5 (100,000 - 999,999 pounds)
Avg Daily Amt code: 5 (100,000 - 999,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: A Pressure: 2 Temp: 7 Location: North of Can Plant Amount: pounds
Container Type: A Pressure: 2 Temp: 7 Location: East of Bottle Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Bleach
CAS: 7681-52-9
[x] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 3 (1,000 - 9,999 pounds)
Avg Daily Amt code: 3 (1,000 - 9,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: E Pressure: 1 Temp: 4 Location: Bottle Plant Amount: pounds
Container Type: E Pressure: 1 Temp: 4 Location: Can Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Carbon Dioxide
CAS: 124-38-9
[x] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:

[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 5 (100,000 - 999,999 pounds)
Avg Daily Amt code: 4 (10,000 - 99,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: A Pressure: 2 Temp: 7 Location: tank North of Can Plant Amount: pounds
Container Type: A Pressure: 2 Temp: 7 Location: tank South of Can Plant Amount: pounds
Container Type: A Pressure: 2 Temp: 7 Location: tank East of Bottle Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Caustic Soda
CAS: 1310-73-2
[x] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 3 (1,000 - 9,999 pounds)
Avg Daily Amt code: 3 (1,000 - 9,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: A Pressure: 1 Temp: 4 Location: bottle and can plant Amount: pounds
Container Type: C Pressure: 1 Temp: 4 Location: PH shack Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Lead
CAS: 7439-92-1
[x] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [x] Solid [ ] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [ ] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 4 (10,000 - 99,999 pounds)
Avg Daily Amt code: 4 (10,000 - 99,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: L Pressure: 1 Temp: 4 Location: Batteries Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Sulfuric Acid
CAS: 7664-93-9
[ ] Identical to previous year
[ ] TRADE SECRET

Facility Name: Pepsi Beverages Company (Tulsa)

[ ] Pure [x] Mix [x] Solid [x] Liquid [ ] Gas [x] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
Max Daily Amt code: 3 (1,000 - 9,999 pounds)
Avg Daily Amt code: 3 (1,000 - 9,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: L Pressure: 1 Temp: 4 Location: MHE Batteries Amount: pounds
Container Type: C Pressure: 1 Temp: 4 Location: PH Building Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

FACILITY STATE FIELDS:
Oklahoma requests the following:
Number of facilities in state for this owner / operator: 5
Requested Contact: Billing address

STATE / LOCAL FEES: None.

[ ] I have attached a site plan
[ ] I have attached a list of site coordinate abbreviations
[ ] I have attached a description of dikes and other safeguard measures

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 4,
and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Kevin Kelsey — **Name and official title of owner/operator OR owner/operator's authorized representative**

Signature

2/27/2013 — **Date signed**

Facility Name: Pepsi Beverages Company (Tulsa)

****
****

FACILITY IDENTIFICATION:
Pepsi Beverages Company (Tulsa)
Dept:
510 W. Skelly Drive
Tulsa, OK 74107 USA
County: Tulsa
Latitude: 36.088889
Longitude: -95.996111
Facility Phone: 918-830-2034

[ ] All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:
Dun & Bradstreet: 17-637-8487
NAICS: 312111 (Soft Drink Manufacturing)

Is the facility manned? [x] Manned [ ] Unmanned
Maximum No. of Occupants: 400

REGULATORY INFORMATION:
Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)? [x] Yes [ ] No
Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)? [ ] Yes [x] No

CONTACT INFORMATION:

Company, PepsiCo North America Beverages

Title: Owner/Operator Contact Type 1: Owner / Operator
Address: 510 W Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-446-6601
Email: Kevin.kelsey@pepsico.com

Kelsey, Kevin
Title: Plant Director Contact Type 1: Emergency Contact
Address: , Broken Arrow, OK, USA
Phones: Work: 918-445-8012 24-hour: 918-408-6093
Email: kevin.kelsey@pepsico.com

Sproles, Barron
Title: Maintenance Mgr Contact Type 1: Emergency Contact
Address: , Bixby, OK, USA
Phones: Work: 918-445-8013 24-hour: 918-830-2034
Email: barron.sproles@pepsico.com

Ballard, Colby
Title: HSE Manager Contact Type 1: Tier II Information Contact
Address: , Tulsa, OK, 74107 USA
Phones: Work: 918-445-8163

Email: colby.ballard@pepsico.com

Kearns, Christina
Title: Process and Sustainability Manager Contact Type 1: Fac. Emergency Coordinator
Address: , Tulsa, OK, 74107 USA
Phones: Work: 918-445-8066 24-hour: 918-671-9602
Email: christina.kearns@pepsico.com

CHEMICAL DESCRIPTIONS:

CHEM NAME: Ammonia (Annhydrous)
CAS: 7664-41-7
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [x] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 05 (5,000 - 9,999 pounds)
Avg Daily Amt code: 05 (5,000 - 9,999 pounds)
Max quantity in largest container: 3500 pounds
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Cylinder Pressure: Ambient pressure Temp: Ambient temperature Location: South of Bottle Plant Amount: pounds
Container Type: Cylinder Pressure: Ambient pressure Temp: Ambient temperature Location: West of Can Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Argon-Nitrogen Gas Mixture
CAS: 7727-37-9
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: North of Can Plant Amount: pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location:

Facility Name: Pepsi Beverages Company (Tulsa)

East of Bottle Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Bleach
CAS: 7681-52-9
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 05 (5,000 - 9,999 pounds)
Avg Daily Amt code: 05 (5,000 - 9,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Plastic or non-metallic drum Pressure: Ambient pressure Temp: Ambient temperature Location: Bottle Plant Amount: pounds
Container Type: Plastic or non-metallic drum Pressure: Ambient pressure Temp: Ambient temperature Location: Can Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Carbon Dioxide
CAS: 124-38-9
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank North of Can Plant Amount: pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank South of Can Plant Amount: pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank East of Bottle Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Caustic Soda

Facility Name: Pepsi Beverages Company (Tulsa)

CAS: 1310-73-2
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 04 (1,000 - 4,999 pounds)
Avg Daily Amt code: 03 (500 - 999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Ambient pressure Temp: Ambient temperature Location: bottle and can plant Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: PH shack Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Lead
CAS: 7439-92-1
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [x] Solid [ ] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [ ] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Cylinder Pressure: Ambient pressure Temp: Ambient temperature Location: Batteries Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: MOTOR OIL
CAS: 64742-65-0
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[x] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Daily Amt code: 06 (10,000 - 24,999 pounds)
Max quantity in largest container: 10000 pounds

Facility Name: Pepsi Beverages Company (Tulsa)

No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: Fleet Shop
Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Sulfuric Acid
CAS: 7664-93-9
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [x] Solid [x] Liquid [ ] Gas [x] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 05 (5,000 - 9,999 pounds)
Avg Daily Amt code: 05 (5,000 - 9,999 pounds)
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
[ ] Confidential
Container Type: Cylinder Pressure: Ambient pressure Temp: Ambient temperature Location: MHE Batteries
Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: PH Building
Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

FACILITY STATE FIELDS:
Oklahoma requests some information located under other tabs.
Requested Contact: Billing address

STATE / LOCAL FEES: None.

[ ] I have attached a site plan
[ ] I have attached a list of site coordinate abbreviations
[ ] I have attached a description of dikes and other safeguard measures

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 5,
and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Kevin Kelsey — **Name and official title of owner/operator OR owner/operator's authorized representative**

Signature

2/28/2014 — **Date signed**

Facility Name: Bottling Group LLC

****
****

FACILITY IDENTIFICATION:
Bottling Group LLC
Dept:
510 W. Skelly Drive
Tulsa, OK 74107 USA
County: Tulsa
Latitude: 36.088889
Longitude: -95.996111
Facility Phone: 918-830-2034

[ ] All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:
Dun & Bradstreet: 17-637-8487
NAICS: 312111 (Soft Drink Manufacturing)

Is the facility manned? [x] Manned [ ] Unmanned
Maximum No. of Occupants: 400

REGULATORY INFORMATION:
Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)? [x] Yes [ ] No
Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)? [ ] Yes [x] No

CONTACT INFORMATION:

Kelsey, Kevin
Title: Plant Director Contact Type 1: Owner / Operator
Address: 510 W Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-445-8012 24-hour: 918-408-6093
Email: kevin.kelsey@pepsico.com

Sproles, Barron
Title: Maintenance Mgr Contact Type 1: Emergency Contact
Address: 510 W/ Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-445-8013 24-hour: 918-830-2034
Email: barron.sproles@pepsico.com

Horne, Keith
Title: HSE Manager Contact Type 1: Tier II Information Contact
Address: , Tulsa, OK, 74107 USA
Phones: Work: 918-445-8163
Email: keith.horne@pepsico.com

Valencia, Mike
Title: Process and Sustainability Manager Contact Type 1: Fac. Emergency Coordinator
Address: 510 W. Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-445-8066 24-hour: 918-935-5719
Email: mike.valencia@pepsico.com

Facility Name: Bottling Group LLC

CHEMICAL DESCRIPTIONS:

CHEM NAME: Ammonia (Annhydrous)
CAS: 7664-41-7
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [x] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 05 (5,000 - 9,999 pounds)
Avg Daily Amt code: 05 (5,000 - 9,999 pounds)
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Ambient pressure Temp: Ambient temperature Location: South side of Bottle Plant Amount: pounds
Container Type: Above ground tank Pressure: Ambient pressure Temp: Ambient temperature Location: West side of Can Plant Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: Bottle Line 1 Surge Drum Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: Can Line Surge Drum Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: Bottle Line 2 Surge Drum Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Carbon Dioxide
CAS: 124-38-9
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Daily Amt code: 08 (50,000 - 74,999 pounds)
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank North of Can Plant Amount: pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank South of Can Plant Amount: pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank East of Bottle Plant Amount: pounds

Facility Name: Bottling Group LLC

CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: MOTOR OIL
CAS: 64742-65-0
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[x] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
Max quantity in largest container: 10000 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: Fleet Shop Amount: pounds
Container Type: Steel Drum Pressure: Ambient pressure Temp: Ambient temperature Location: Bottle Plant Machine Oil Storage Area Amount: pounds
Container Type: Tote bin Pressure: Ambient pressure Temp: Ambient temperature Location: Machine Reservoirs Bottle Plant Amount: pounds
Container Type: Tote bin Pressure: Ambient pressure Temp: Ambient temperature Location: Machine Reservoirs in Can Plant Amount: pounds
Container Type: Steel Drum Pressure: Ambient pressure Temp: Ambient temperature Location: Can Plant machine Oil Storage Area Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: NITROGEN (LIQUEFIED)
CAS: 7727-37-9
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 08 (50,000 - 74,999 pounds)
Avg Daily Amt code: 08 (50,000 - 74,999 pounds)
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Ambient pressure Temp: Cryogenic conditions Location: North Side of Can Plant Amount: pounds
Container Type: Above ground tank Pressure: Ambient pressure Temp: Cryogenic conditions Location: East Side of Bottle Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

Facility Name: Bottling Group LLC

CHEM NAME: Sulfuric Acid
CAS: 7664-93-9
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [x] Solid [x] Liquid [ ] Gas [x] EHS
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Daily Amt code: 04 (1,000 - 4,999 pounds)
Avg Daily Amt code: 04 (1,000 - 4,999 pounds)
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Battery Pressure: Ambient pressure Temp: Ambient temperature Location: MHE Batteries
Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: PH Building
Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

FACILITY STATE FIELDS:
Oklahoma requests some information located under other tabs.
Requested Contact: Billing address

STATE / LOCAL FEES: None.

[ ] I have attached a site plan
[ ] I have attached a list of site coordinate abbreviations
[ ] I have attached a description of dikes and other safeguard measures

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 4,

and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Kevin Kelsey		2/17/2015
Name and official title of owner/operator OR owner/operator's authorized representative	**Signature**	**Date signed**

Facility Name: Bottling Group LLC - 510 W. Skelly Drive

****
****

FACILITY IDENTIFICATION:
Bottling Group LLC - 510 W. Skelly Drive
Dept: Tulsa Plant
510 W. Skelly Drive
Tulsa, OK 74107 USA
County: Tulsa
Latitude: 36.0884845
Longitude: -95.99734330000001
MAILING ADDRESS: 510 W. Skelly Drive
Tulsa, OK 74107 USA
Facility Phone: 918-445-8012(Work)

[ ] All facility information (not including chemical information) is identical to last year's submission

IDENTIFICATION NUMBERS:
Dun & Bradstreet: 17-637-8487
EIN#: 134042452 (Tax ID)
NAICS: 312111 (Soft Drink Manufacturing)

Is the facility manned? [x] Manned [ ] Unmanned
Maximum No. of Occupants: 400

REGULATORY INFORMATION:
Subject to Emergency Planning under Section 302 of EPCRA (40 CFR part 355)? [x] Yes [ ] No
Subject to Chem. Accident Prevention under Section 112(r) of CAA (40 CFR part 68, Risk Mgmt. Pgm.)? [ ] Yes [x] No

CONTACT INFORMATION:

Bottling Group LLC,
Contact Type 1: Billing
Address: 510 W. Skelly Drive, tulsa, OK, USA
Phones: Work: 918-445-8012

Kelsey, Kevin
Title: Plant Director Contact Type 1: Emergency Contact
Address: 510 W/ Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-445-8012 24-hour: 918-408-6093
Email: kevin.kelsey@Pepsico.com

Valencia, Mike
Title: Process and Sustainability Manager Contact Type 1: Fac. Emergency Coordinator
Address: 510 W. Skelly Drive, Tulsa, OK, 74107 USA
Phones: Work: 918-445-8066 24-hour: 918-935-5719
Email: mike.valencia@pepsico.com

Kelsey, Kevin
Title: Plant Director Contact Type 1: Owner / Operator
Address: 510 W Skelly Drive, Tulsa, OK, 74107 USA

Phones: Work: 918-445-8012
Email: kevin.kelsey@pepsico.com

Shafter, Andrew
Title: HSE Manager Contact Type 1: Tier II Information Contact
Address: 510 W. Skelly Drive, Tulsa, OK, 74107 USA
Phones: Mobile - Cell: 203-731-4912
Email: andrew.shafer@pepsico.com

CHEMICAL DESCRIPTIONS:

CHEM NAME: Ammonia (Annhydrous)
CAS: 7664-41-7 EHS: Yes
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Amt: 10240.0 pounds Max Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Amt: 10240.0 pounds Avg Daily Amt code: 06 (10,000 - 24,999 pounds)
Max quantity in largest container: 1826.0 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Tank inside building Pressure: Greater than ambient pressure Temp: Less than ambient temp. / not cryog Location: Bottle Line #1 Surge Drum Amount: 490 pounds
Container Type: Tank inside building Pressure: Greater than ambient pressure Temp: Less than ambient temp. / not cryog Location: Can Line Surge Drum Amount: 220 pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Less than ambient temp. / not cryog Location: West side of Can Plant Amount: 1826 pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Less than ambient temp. / not cryog Location: South side of Bottle Plant Amount: 720 pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Less than ambient temp. / not cryog Location: Bottline Line #2 Surge Drum Amount: 186 pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Less than ambient temp. / not cryog Location: Bottling Water Chiller Surge Drum Amount: 360 pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Carbon Dioxide
CAS: 124-38-9 EHS: No
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:

[ ] Below Reporting Thresholds
Max Amt: 84000.0 pounds Max Daily Amt code: 09 (75,000 - 99,999 pounds)
Avg Amt: 84000.0 pounds Avg Daily Amt code: 09 (75,000 - 99,999 pounds)
Max quantity in largest container: 48000.0 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank East of Bottle Plant Amount: 48000 pounds
Container Type: Above ground tank Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: tank North of Can Plant Amount: 28000 pounds
Container Type: Cylinder Pressure: Greater than ambient pressure Temp: Cryogenic conditions Location: Can plant CO2 cylinder filling area Amount: 8000 pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Ferric Sulfate
CAS: 10028-22-5 EHS: No
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas
CHEMICAL COMPONENTS:
[ ] EHS, CAS: 10028-22-5, Component: Ferric Sulfate , 50.0% Wt, Max Amt code: 05 (5,000 - 9,999 pounds)
[ ] EHS, CAS: 7664-93-9, Component: Sulfuric Acid , 0.25% Wt, Max Amt code: 01 (0 - 99 pounds)
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[x] Below Reporting Thresholds
Max Amt: 12100.0 pounds Max Daily Amt code: 06 (10,000 - 24,999 pounds)
Avg Amt: 12100.0 pounds Avg Daily Amt code: 06 (10,000 - 24,999 pounds)
Max quantity in largest container: 3025.0 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Tote bin Pressure: Ambient pressure Temp: Ambient temperature Location: Can Plant Concentrate Storage Area Amount: 12100 pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Lead
CAS: 7439-92-1 EHS: No
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [x] Solid [ ] Liquid [ ] Gas
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Amt: 30000.0 pounds Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Amt: 28321.0 pounds Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
Max quantity in largest container: null pounds

No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Battery Pressure: Ambient pressure Temp: Ambient temperature Location: Forklift and Pallet Jack Batteries Amount:
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: MOTOR OIL
CAS: 64742-65-0 EHS: No
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas
PHYSICAL & HEALTH HAZARDS:
[x] Fire [ ] Sudden Release of Pressure [ ] Reactivity [ ] Immediate (acute) [x] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Amt: 41800.0 pounds Max Daily Amt code: 07 (25,000 - 49,999 pounds)
Avg Amt: 41000.0 pounds Avg Daily Amt code: 07 (25,000 - 49,999 pounds)
Max quantity in largest container: 8000.0 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Steel Drum Pressure: Ambient pressure Temp: Ambient temperature Location: Bottle Plant Machine Oil Storage Area Amount: pounds
Container Type: Tote bin Pressure: Ambient pressure Temp: Ambient temperature Location: Machine Reservoirs Bottle Plant Amount: pounds
Container Type: Steel Drum Pressure: Ambient pressure Temp: Ambient temperature Location: Can Plant machine Oil Storage Area Amount: pounds
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: Fleet Shop Amount: pounds
Container Type: Tote bin Pressure: Ambient pressure Temp: Ambient temperature Location: Machine Reservoirs in Can Plant Amount: pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: NITROGEN (LIQUEFIED)
CAS: 7727-37-9 EHS: No
[ ] Identical to previous year
[ ] TRADE SECRET
[x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Amt: 76217.0 pounds Max Daily Amt code: 09 (75,000 - 99,999 pounds)
Avg Amt: 76217.0 pounds Avg Daily Amt code: 09 (75,000 - 99,999 pounds)
Max quantity in largest container: 38108.0 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential

Container Type: Above ground tank Pressure: Ambient pressure Temp: Cryogenic conditions Location: East Side of Bottle Plant Amount: 38108 pounds
Container Type: Above ground tank Pressure: Ambient pressure Temp: Cryogenic conditions Location: North Side of Can Plant Amount: 38108 pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

CHEM NAME: Sulfuric Acid
CAS: 7664-93-9 EHS: Yes
[ ] Identical to previous year
[ ] TRADE SECRET
[ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas
PHYSICAL & HEALTH HAZARDS:
[ ] Fire [ ] Sudden Release of Pressure [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
INVENTORY:
[ ] Below Reporting Thresholds
Max Amt: 7000.0 pounds Max Daily Amt code: 05 (5,000 - 9,999 pounds)
Avg Amt: 7000.0 pounds Avg Daily Amt code: 05 (5,000 - 9,999 pounds)
Max quantity in largest container: 440.0 pounds
No. of days on-site: 365
STORAGE LOCATIONS:
[ ] Confidential
Container Type: Tank inside building Pressure: Ambient pressure Temp: Ambient temperature Location: pH Building Amount: 1700 pounds
Container Type: Battery Pressure: Ambient pressure Temp: Ambient temperature Location: Forklift and Pallet Jack Batteries Amount: 5244 pounds
CHEMICALS IN INVENTORY STATE FIELDS:
No additional chemical information is required by Oklahoma

FACILITY STATE FIELDS:
Oklahoma requests some information located under other tabs.
Requested Contact: Billing address

STATE / LOCAL FEES: None.

[ ] I have attached a site plan
[ ] I have attached a list of site coordinate abbreviations
[ ] I have attached a description of dikes and other safeguard measures

ATTACHMENTS
Ammonia.pdf
Carbon Dioxide.pdf
Motor Oil.pdf
Sulfuric Acid, 93.0.pdf
Nitrogen.pdf
Industrial Deep Cycle Battery.pdf
Ferric Sulfate SDS.pdf

Facility Name: Bottling Group LLC - 510 W. Skelly Drive

Certification (Read and sign after completing all sections)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through 6,
and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Kevin Kelsey		02-19-2016
Name and official title of owner/operator OR owner/operator's authorized representative	**Signature**	**Date signed**

DEQ Request for Information Form
SARA Title III

Name: Cassie Schmidt

Address: 2049 E. Joyce Blvd, Ste 400

City/State/Zip: Fayetteville, AR

I, Cassie Schmidt ,request the following information.

Description of request Information from the last 2-5 years concerning TRI status for Greenhill Concrete Products Inc Portable Concrete Plant located at 4912 S Elwood Ave, Tulsa, OK.

Purpose of request To obtain information regarding the possibility of sub-surface contamination on the site.

Signature

Date

CONFIDENTIALITY NOTICE:

The Oklahoma Department of Environmental Quality ("DEQ") is providing the accompanying electronically stored information ("ESI") pursuant to the Oklahoma Open Records Act, 51 O.S. §24A.1 *et seq*. If you receive ESI that the DEQ is allowed or required to keep confidential, or is otherwise not subject to the Oklahoma Open Records Act, the disclosure thereof by the DEQ was inadvertent and unintentional and the DEQ and/or the party creating the ESI has not waived the claim of confidentiality or privilege.

Confidential and privileged information includes but is not limited to trade secrets, records protected by a state evidentiary privilege, attorney work product, attorney client privilege, joint defense, joint confidentiality, and/or attorney settlement negotiations. If you received information marked confidential or privileged, or if for any other reason you are aware or believe that a claim of confidentiality or privilege has been made or may be applicable, DO NOT READ THE ESI; DO NOT USE, DISCLOSE, OR FORWARD THE ESI; promptly sequester, destroy or return the ESI and notify:

Sarah Penn, Deputy General Counsel
Office of the General Counsel
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
Office: (405) 702-7100
Fax: (405) 702-7199.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

September 7, 2012

Matt Ritchie, Materials Manager
Greenhill Concrete Products Inc.
P.O. Box 10
Catoosa, OK 74015

Re: DEQ Application No. OKG11T212
Greenhill Concrete Products Inc., Rogers County, Oklahoma
Facility ID No. I-72002740

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to treat and dispose of wastewater was received by this office on November 30, 2011. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be complete.

Your Authorization to treat and dispose of wastewater under OPDES General Permit No. OKG11T is enclosed. The effective date and the expiration date of this Authorization appears on the cover page.

Should you have any questions regarding the Authorization, please contact the Industrial Permits Section at the letterhead address or telephone (405) 702-8100. Should you have any questions regarding compliance with the conditions of this Authorization, please contact the Industrial Enforcement Section at the same address and phone number.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/BMC/ab WTC/SLT/AR

Enclosure

printed on recycled paper with soy ink

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR DISCHARGE AND/OR DISPOSAL
UNDER GENERAL PERMIT NO. OKG11

AUTHORIZATION NO.: OKG11T212
FACILITY ID NO.: I-72002740

In compliance with Title 27A O.S. §2-6-201 *et seq.*, as amended (the OPDES Act), the Rules of the Department of Environmental Quality promulgated thereunder, and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction Co., Inc., dba Greenhill Concrete.
P.O. Box 10
Catoosa, OK 74015

is hereby authorized to dispose of process wastewater and discharge non-contact stormwater runoff associated with the following activities: (1) truck mixer drum washout and (2) external truck wash and oil spray down, and associated stormwater runoff from their facility located at:

SE ¼, NW ¼, NW ¼, Section 10, Township 20N, Range 14 EIM
Rogers County, Oklahoma
or at 5411 N. 145th East Avenue, Owasso, OK 74055

The wastewater consists of truck mixer drum washout and stormwater from the plant area and is classified as Class III wastewater in accordance with OAC 252:616-1-2.

The above-referenced facility is also authorized to dispose of wastewater in one flow-through impoundment (F01) and one total retention surface impoundment (T01), as described in the Appendix. Surface impoundments shall be maintained in accordance with conditions set forth in the Concrete Batch Plant General Permit No. OKG11 and in Parts I, II, III, and the Appendix of this Authorization.

Discharge of wastewater contained in the authorized surface impoundment(s) to the waters of the state is specifically prohibited.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and DEQ Rules.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This Authorization replaces and/or supersedes OPDES Permit No. OKG11MT23 that became effective on August 1, 2007.

This Authorization shall become effective on September 7, 2012.

This Authorization shall expire at midnight, on January 4, 2014.

This is to certify that the proposed wastewater treatment and disposal systems described in this Authorization meet the requirements of the Oklahoma Water Quality Standards, as amended, and the DEQ Rules.

Issued this 7th day of September, 2012.

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

PART I
EFFLUENT LIMITATIONS, MONITORING AND OTHER REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Not applicable since discharge to waters of the state is prohibited.

SECTION B. HOUSEKEEPING PROGRAM REQUIREMENTS

Where the DEQ has determined that the facility has established a strong housekeeping program to maintain a clean plant site and has segregated process wastewaters from plant area stormwater, the plant area stormwater may be covered under Part I, Section H of the Concrete Batch Plant General Permit or Part I, Section C of this Authorization. **If this determination has been made by the DEQ, it will be noted in this Authorization.** The following conditions shall apply to all permittees for the establishment of a strong housekeeping program:

a. The area under and around the mix plant shall be kept clean of solids and other contaminants on a daily basis.
b. Solids and other contaminants that may accumulate on the ground under the mix plant and surrounding area shall be picked up by dry methods such as sweeping, shoveling, etc., or may be washed down to a process wastewater impoundment for treatment and containment.
c. Based on information provided by the applicant, the DEQ has determined that this facility has established a strong housekeeping program.

SECTION C. STORMWATER MONITORING REQUIREMENTS

1. Monitoring Requirements

All facilities, without exception, will be subject to visual monitoring.

a. Quarterly Visual Monitoring

The requirements and procedures for quarterly visual monitoring are applicable to all facilities covered under this General Permit.

- The Permittee must perform and document a quarterly visual examination of a stormwater discharge associated with industrial activity from each outfall, except discharges exempted below. The visual examination must be made during daylight hours (e.g., normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided the permittee documents in the monitoring records that no runoff occurred. An authorized representative of the facility must sign and certify the documentation.

- The visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging from the facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. The examination must be conducted in a well-lighted area. No analytical tests are required to be performed on the samples. All such samples must be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where practicable, the same individual should carry out the collection and examination of discharges for the entire Authorization term.

The following Table is an example of what the permittee should look for in a visual monitoring sample.

Visual Monitoring		
Parameter	**Method**	**Results**
Color and Extent	Visual	Clear, yellow, red, blue, green, brown, black, milky, etc.
Odor	Smell	None, earthy, sewage, musky, rotten eggs, petroleum, etc.
Clarity or Turbidity	Develop a test such as, clean off the label from a 2 liter clear plastic bottle, fill with the sample, and try to see things through it.	1) can't see through the bottle 2) can see through but could not read newsprint 3) can see through and can read newsprint 4) pretty clear, but not as clear as bottled water 5) as clear as bottled water
Floating solids	Visual	Yes/no - describe what they are.
Settled solids	Use same 2 liter bottle	Tablespoons or cups of material or millimeters of solids on bottom after 24 hours
Suspended solids	Look through the container.	What do you see?
Foam	Visual	Yes/no - how thick is the foam? How much of the surface does it cover? What color is the foam?
Oil sheen	Visual	Color and extent
Other obvious indicators of stormwater pollution	Indicate what was observed that would lead a reasonable person to believe that the stormwater was polluted.	Tell it like you see it.

- Representative Outfalls - Substantially Identical Discharges.

  If the facility has two (2) or more outfalls that the permittee believes discharge substantially identical effluents, based on similarities of the industrial activities, significant materials or stormwater management practices occurring within the outfalls' drainage areas, the permittee may examine the effluent of just one of the outfalls and report that the examination also applies to the substantially identical outfall(s). For this to be permissible, the permittee must describe in the pollution prevention plan the following: locations of the outfalls; why the outfalls are expected to discharge substantially identical effluents; estimates of the size of the drainage area (in square feet) for each of the outfalls; and an estimate of the runoff coefficient of the drainage areas (low: under 40 percent; medium: 40 to 65 percent; high: above 65 percent).

- The Permittee must maintain the visual examination reports onsite with the Storm Water Pollution Prevention Plan (SWP3). The report must include the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids,

suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination.

- Inactive and unstaffed sites: When the facility is unable to conduct visual stormwater examinations at an inactive and un-staffed site, the facility may exercise a waiver of the monitoring requirement as long as the facility remains inactive and un-staffed. If the waiver is exercised, the Permittee must maintain a certification with the pollution prevention plan stating that the site is inactive and unstaffed and that performing visual examinations during a qualifying event is not feasible. An authorized representative of the facility must sign and certify the waiver.

2. Stormwater Reporting Requirements

Visual monitoring results must be retained with the SWP3. Do not submit to the DEQ unless requested to do so by the Executive Director.

3. Annual Comprehensive Site Compliance Evaluation Reporting Requirement

An Annual Comprehensive Site Compliance Evaluation Report using DEQ Form 605-006 must be filed each year by each facility covered by this Authorization. The report must be filed by April 1st of each year.

The report must include a certification signed and dated by an authorized representative of the facility that states the following:

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SECTION D. SURFACE IMPOUNDMENTS

The use of surface impoundments for treatment and/or disposal of process wastewater at concrete batch and pre-cast concrete product plants are authorized by the General Permit, subject to additional State requirements as specified below in accordance with OAC 252:616.

1. Construction Requirements

Impoundments T01 and F01 shall be constructed in accordance with OAC 252:616-7 and maintained in accordance with OAC 252:616-7-1.

2. Wastewater Classification

The process wastewater generated from routine operations of concrete batch and pre-cast concrete product plants is classified as Class III wastewater in accordance with OAC 252:616-1-2.

3. Liner Requirements

Surface impoundment F01 has a Concrete liner. Surface impoundment T01 has a limestone bedrock liner. Since the wastewater being retained is Class III, it is the Best Professional Judgment (BPJ) of the permit writer that concrete and limestone bedrock liners are appropriate and compatible liner systems in accordance with OAC 252:616-7.

4. Specific Requirements

a. Wastewater contained in surface impoundments may be recycled for use in product, dust suppression, stockpile watering or wash water.

b. At such time as surface impoundments are to be permanently taken out of service or at such time as the contents of surface impoundments pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.

c. In all other respects, surface impoundments shall be subject to standard conditions for surface impoundments contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring and closure.

Each Authorization may include other specific requirements for each surface impoundment based on information submitted by the applicant, facility inspection, and DEQ rules.

5. Freeboard Requirements

A minimum freeboard of two (2) feet shall be maintained on all flow-through surface impoundments and all surface impoundments that are equipped to transfer process wastewater to a permitted outfall, other permitted surface impoundments, recycle/reuse system or a land application system. However, a minimum freeboard of one (1) foot shall be maintained on all flow-through surface impoundments constructed with a concrete liner in accordance with OAC 252:616-7. Impoundment F01 shall maintain one (1) foot of freeboard.

A minimum freeboard of three (3) feet shall be maintained on all total retention surface impoundments that are not equipped to transfer process wastewater to a permitted outfall, other permitted surface impoundments, recycle/reuse system or a land application system. However, a minimum freeboard of two (2) feet shall be maintained on all total retention surface impoundments constructed with a concrete liner in accordance with OAC 252:616-7. Impoundment T01 shall maintain three (3) feet of freeboard.

6. Depth to Groundwater

Surface impoundments as required by OAC 252:616-7-1(4) are required to be located such that the base of the liner is at least (15) feet above historic maximum groundwater table. Since the wastewater from the activities covered by this general permit is classified as Class III, this requirement may be waived in accordance with OAC 252:616-7-1(4)(B). However, at no location shall the bottom of a surface impoundment be equal to or below the highest seasonal groundwater elevation. Due to the class of wastewater and topography of the area, the groundwater separation requirement has been waived.

SECTION E. TANK SYSTEMS

The use of underground tank systems to manage process wastewater for treatment and/or disposal of process wastewater at concrete batch plants and pre-cast concrete product facilities is authorized by the General Permit, subject to additional requirements as specified below in accordance with OAC 252:616.

1. Authorized Use of Tank Systems (OAC 252:616-9-1)

   The use of tank systems for all wastewater classifications is authorized as follows:

   a. Tank systems without lateral lines can be used for the treatment of Class I, II, III, and V wastewater.

2. Tank System Materials (OAC 252:616-9-2)

   Tank systems may be constructed of concrete, metal, plastic, or fiberglass in accordance with OAC 252:616-9-2.

3. Tank System Requirements (OAC 252:616-9-3)

   Tank systems must be constructed in accordance with OAC 252:616-9-3.

SECTION F. LAND APPLICATION AND BENEFICIAL REUSE OF PROCESS WASTEWATER

Land application of process wastewater for dust suppression and/or reuse of process wastewater for construction or stabilization at concrete batch plants and pre-cast concrete product facilities are authorized by the General Permit, and are subject to the requirements as specified below and in this Authorization, in accordance with OAC 252:616-11.

1. Process wastewater that is reused or land applied for dust suppression must be classified as Class III wastewater in accordance with OAC 252:616-1-2.

2. Process wastewater to be land applied for dust suppression shall be free of a visible sheen of oil or globules of oil or grease.

3. The process wastewater to be land applied for dust suppression shall be visually inspected prior to land application.

4. Process wastewater that is recycled back into the concrete mixture is exempt from monitoring requirements.

5. There shall be no land application of process wastewater for dust suppression in areas where the depth to the maximum seasonal groundwater level is less than two (2) feet in accordance with OAC 252:616-5-1(b)(2)(E).

6. There shall be no land application of process wastewater for dust suppression during periods of precipitation or when soil is saturated or frozen.

7. There shall be no runoff of process wastewater used for dust suppression.

SECTION G. RECYCLABLE CONCRETE MATERIAL AND DISPOSAL OF OTHER SOLIDS

Recyclable concrete material recovered from the scatter pile, impoundments and/or other means may be removed from the facility and may also be used by the applicant at the permitted facility at any time. No records are required.

SECTION H. SCHEDULE OF COMPLIANCE

The permittee will achieve compliance with the following schedule.

SCHEDULE OF COMPLIANCE

Item	Due date
1. Remove trees and overgrown plant life, and repair the liner of T01.	Three (3) months from effective date of permit authorization
2. Submit an approvable plan, signed and sealed by a professional engineer licensed to practice in the state of Oklahoma, to construct impoundment F02 and the conveyance to transport water to T01.	Three (3) months from effective date of permit authorization
3. Submit as-built construction designs for F02 before use of F02.	Six (6) months from effective date of permit authorization

PART II
OTHER PERMIT CONDITIONS AND REQUIREMENTS

1. This Authorization does not convey any exclusive privileges or authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations nor does it obviate the requirement to obtain permission from any landowners whose property will be affected by this Authorization.

2. Detergents used for truck washing should be low-phosphate, low-sudsing and biodegradable.

3. Laws and Rules Applicable

   The DEQ Rules, as amended, are applicable to and are incorporated by reference into the Concrete Batch Plant General Permit and any Authorizations under it. The permittee is hereby given notice that this Authorization is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and all amendments of the laws of the State of Oklahoma, the Department of Environmental Quality Rules, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit to any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit of the permittee. By DEQ approval, grant, and issuance of this Authorization, permittee acknowledges responsibility to obtain correct and current copies of applicable DEQ Rules (as amended), provided, however, that permittee further acknowledges that any and all amendments thereto shall become a part of this Authorization.

APPENDIX

Description of Wastewater Treatment/Disposal Surface Impoundments

Classification OAC 252:616-1-2		Liner Description	Holding Capacity and/or Dimensions OAC 252:616-7-1(6) [b]	Wastewater Destination
ID [a]	Wastewater Description			
F01	Wastewater generated from concrete drum cleanout and stormwater Class III	Concrete	233,375 gallons 25' x 130' x 10'	T01 and Recycle
T01	Wastewater generated from effluent from F01 and stormwater Class III	Limestone Bedrock	4,978,500 gallons 172' x 200' x 20'	Total Retention and Recycle

[a] Designation T refers to total retention surface impoundment.
Designation F refers to flow-through surface impoundment.

[b] Based on information provided in application. Freeboard requirements in Part I.D.5 must be met.

Location of Surface Impoundments

ID	Legal Location Description	General Location and Description
F01	SW¼, NE¼, NW¼, Section 10, Township 20N, Range14EIM, Rogers County, Oklahoma	Southeast of office, South of plant
T01	SE¼, NW¼, NW¼, Section 10, Township 20N, Range14EIM, Rogers County, Oklahoma	South of office, Southwest of plant

7200 2740

SUPERIOR ENVIRONMENTAL COMPLIANCE, INC

Superior. Always.

September 10, 2012

Mr. Bryce Callies
Industrial Permitting Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Closure Plan, Pond F01, Greenhill Concrete, Rogers County, OK.

Dear Mr. Callies:

Attached please find the closure plan for existing Pond F01 at the Greenhill Concrete facility in Rogers County, Oklahoma. Once the relocation of this pond has been completed, we will provide the required closure certification.

Please contact me if you or your staff has any questions.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb
Enclosure

Cc: Matt Ritchie, Greenhill Concrete

RECEIVED
SEP 14 2012
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com |www.superiorenviro.com

CLOSURE PLAN

Pond F01

Greenhill Concrete
Rogers County, OK

Greenhill Concrete proposes to relocate Pond F01 at its concrete batch plant located 5411 N. 145th East Avenue, Owasso, Oklahoma 4015. The reasons for this relocation are:

1. To collect additional runoff from around the batch plant for haul road watering,
2. To expand the aggregate storage area in the vicinity of the existing pond.

1. **Background: Describe the activity that took place at the site during the life of the impoundment. Describe the current condition of the impoundment, including the amount of water remaining and an estimate of the amount of sludge remaining.**

Pond F01 has been in use at this facility since it went into operation in late 2007. This pond receives flow from washing concrete residue from the mixer barrels on Company cement trucks. Water from the impoundment is then used for watering the facility haul roads. Periodically, accumulated concrete is removed from the pond and stockpiled onsite. Existing Pond F01 will be emptied of water and concrete prior to closure. Water will be applied to facility haul roads and concrete will be removed and stockpiled. This pond will then be filled with native soil and/or aggregate material and the facility's aggregate stockpiles will be expanded over the former pond location.

2. **Proposed Closure Activities: Please indicate what will be done with the water and sludge remaining in the impoundments.**

   a. Water in this impoundment:

   _____ will be allowed to evaporate.
   _____ will be pumped out and disposed in a POTW.
   _____ will be pumped out and used for watering facility haul roads.
   __X__ will be used for dust suppression (total volume).
   _____ will be left in place.

   b. Sludge. There is no sludge in this impoundment, however, accumulated concrete will be removed and stockpiled onsite for later use as onsite or offsite fill material.

3. **Backfill:**

The existing impoundment will be backfilled using onsite soil material and/or aggregate materials.

4. **Disposal:**

There is no piping or other material associated with the existing pond that will require disposal during closure.

5. Certification of Closure:

Greenhill Concrete will complete construction of replacement Pond F01 and place the relocated pond in service. The Company will then complete closure of existing Pond F01. After completion of the above activities, DEQ will be notified via a signed certification that all closure activities were completed in accordance with this Plan as required by OAC 252:616-13-4(d).

6. Plan Deviation:

If there is a need to deviate from this Plan in any way, or the closure plan is not approved by the DEQ, then the closure certification for the facility will be submitted by a Registered Professional Engineer, licensed by the State of Oklahoma.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

September 22, 2012

Matt Ritchie Materials Manager
Greenhill Concrete Products Inc.
P.O. Box 10
Catoosa, OK 74015

RE: Closure Plan for ODEQ Application No. OKG11T212
Greenhill concrete Products Inc., Rogers County, Oklahoma
Facility ID No. I-72002740

Dear Mr. Ritchie:

Your closure plan for impoundment F01 was received by this office on September 14, 2012. The DEQ had reviewed your closure plan and approves of the closure plan. Once the closure activities are complete, you will need to submit a letter to the DEQ certifying that you closed the impoundment in accordance with your approved closure plan. Once the DEQ receives the Certification of Closure, the DEQ will reissue your authorization.

Thank you for your cooperation. If you have any questions concerning this submittal or DEQ procedures, please contact Bryce Callies at (405) 702-8212.

Sincerely,

Micheal Jordan, P.E.
Industrial Permits Section
Water Quality Division

CMP/BMC/ab WTC

Superior. Always.

January 25, 2013

Mr. Micheal Jordan, P.E.
Industrial Permits Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Documentation of Closure of Pond F01, Greenhill Concrete Products, Inc., Rogers County, OK.
ODEQ Application No. OKG11T212.
Facility ID No. I-72002740.

Dear Mr. Jordan:

In accordance with your letter of September 22, 2012, we are writing to notify you that the original Pond F01 at the above facility has been closed and filled in accordance with the closure plan submitted to your office on September 10, 2012. The new Pond F01 has been constructed and placed in service.

Please contact me (randy.beeson@secompliance.com) or Mr. Matt Ritchie (mattr@greenhillconcrete.com) if you or your staff has any questions regarding this matter.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb
Enclosure

Cc: Greenhill Concrete Products, Inc.

RECEIVED
FEB 04 2013
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com |www.superiorenviro.com

Superior. Always.

February 12, 2013

Mr. Micheal Jordan, P.E.
Industrial Permits Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Design Details, New Pond F01, Greenhill Concrete Products, Inc., Rogers County, OK.
ODEQ Application No. OKG11T212.
Facility ID No. I-72002740.

Dear Mr. Jordan:

In accordance with your letter of September 22, 2012, we are providing you with the design details of the new Pond F01 at the above facility. This replacement pond is equipped with a concrete bottom and sidewalls comprised of earth and concrete block. A 12-inch subsurface discharge line routes overflow to total retention pond T01. Water is pumped from Pond F01 to an adjacent mixer truck washout pad and then routed back to Pond F01.

Detail sheets have been attached showing the Pond F01 drainage area, a ditch that routes water from the Greenhill Concrete plant to the pond, the subsurface drainage line and the mixer truck washout pad.

Please contact me (randy.beeson@secompliance.com) or Mr. Matt Ritchie (mattr@greenhillconcrete.com) if you or your staff has any questions regarding this replacement pond.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

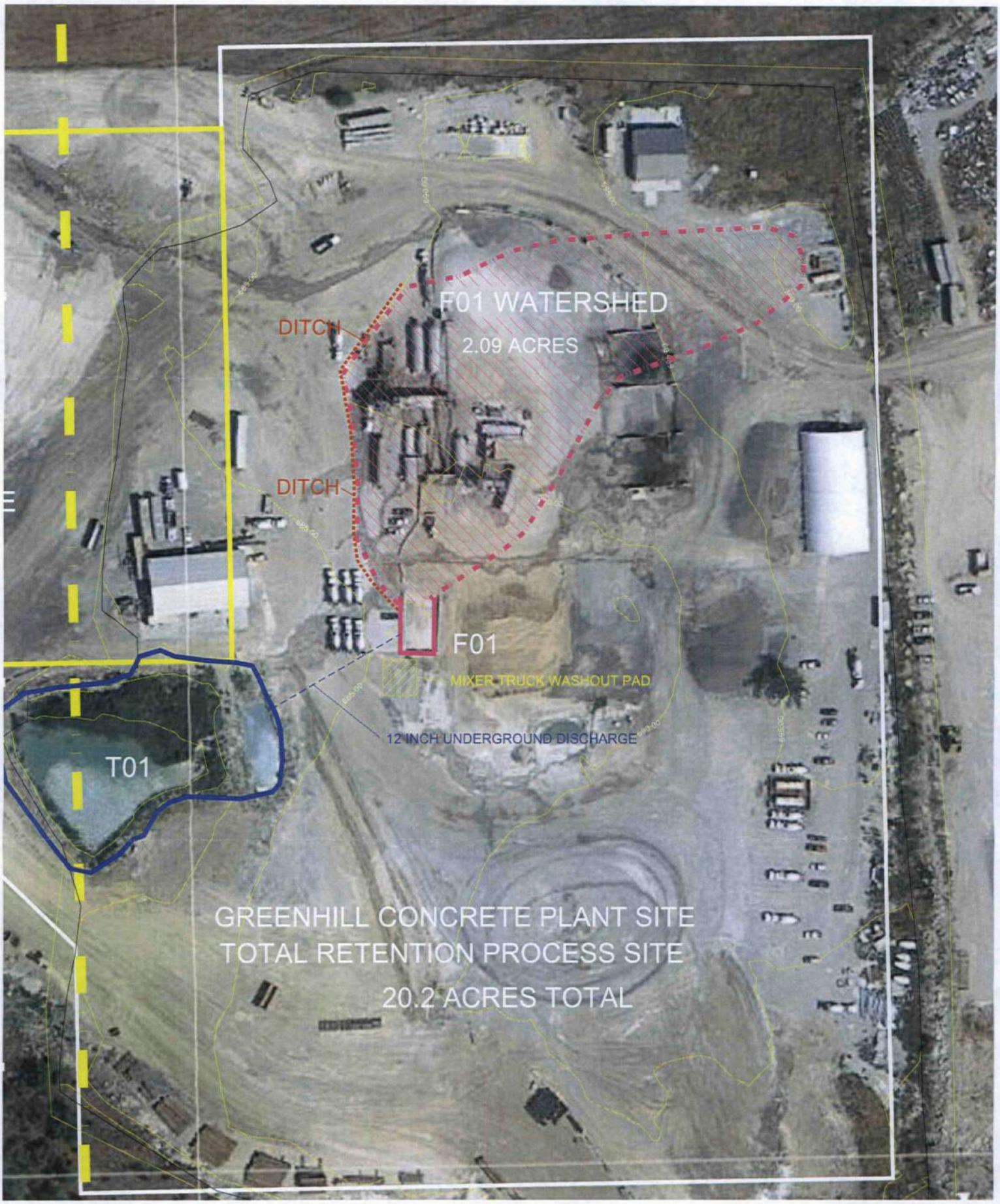
Randal J. Beeson
Randal J. Beeson
General Manager

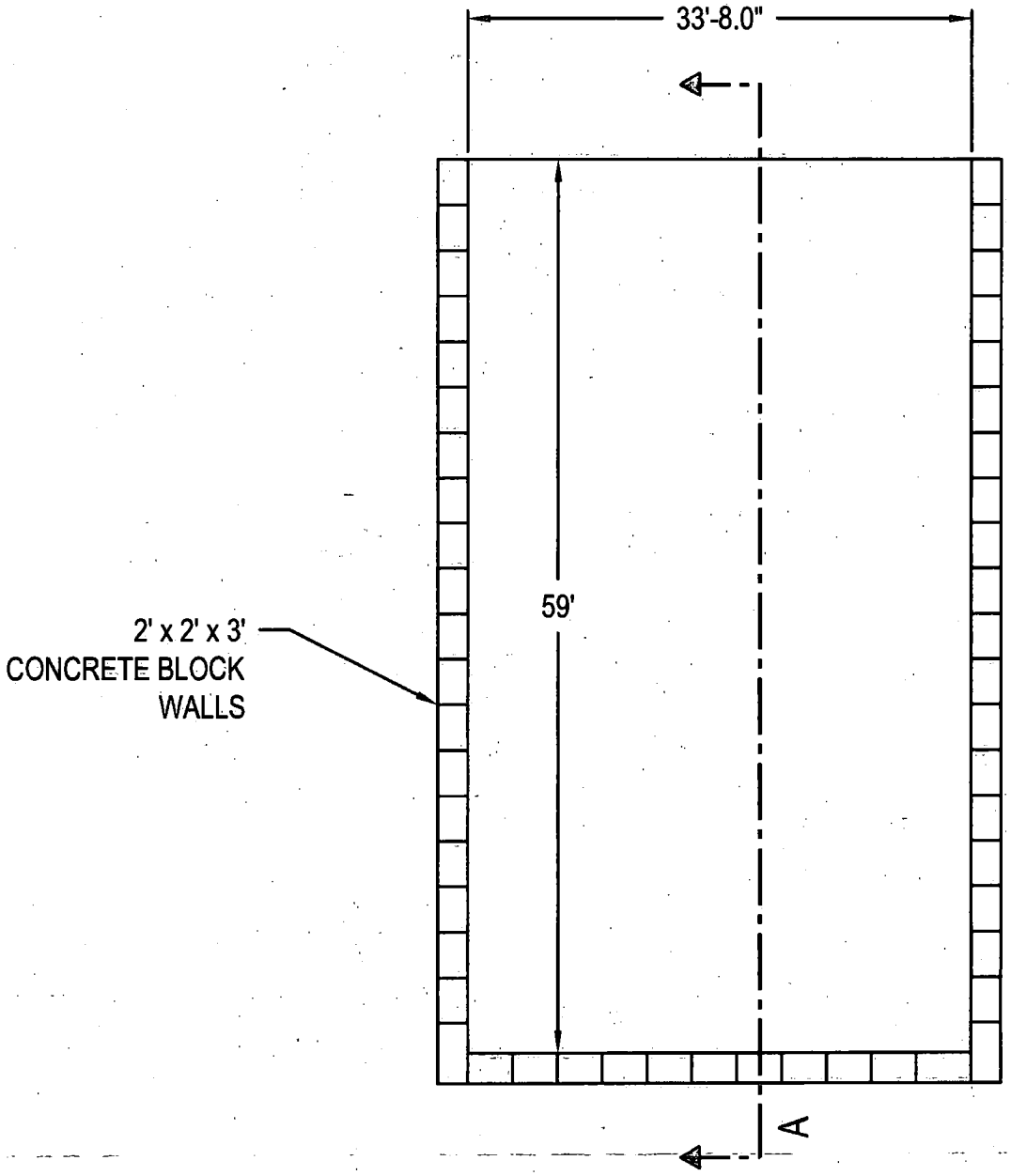
RJB/rjb
Enclosures

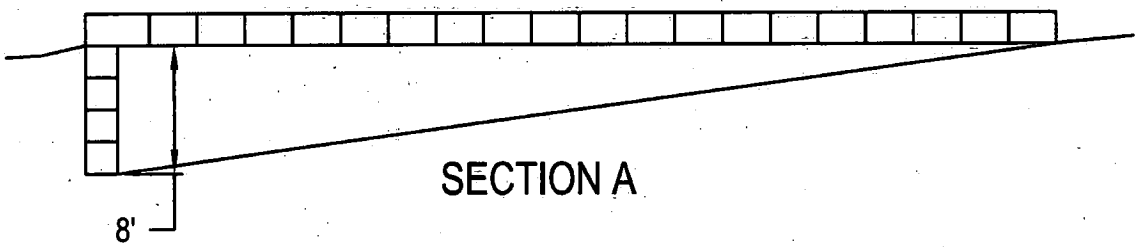
Cc: Greenhill Concrete Products, Inc.

RECEIVED
FEB 20 2013
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com |www.superiorenviro.com


F01 WATERSHED
2.09 ACRES
DITCH
DITCH
F01
MIXER TRUCK WASHOUT PAD
12 INCH UNDERGROUND DISCHARGE
T01
GREENHILL CONCRETE PLANT SITE
TOTAL RETENTION PROCESS SITE
20.2 ACRES TOTAL





SECTION A

VOLUME = (8 * 59 * 33.67)/2 = 7946.12 CF
1CF = 7.4805 US GALLONS
7946.12 * 7.48 = 59440.95 GALLONS

NEW F01 POND

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002740 Permit No. OKG11T212 County Tulsa SIC

Shearwood Construction Co. dba Greenhill Concrete — 5411 N. 145th Ave — Owasso — 74055
Name of Facility — Address — City — Zip

" " " "
Name of Owner — Address — City — Zip

Kenny Henderson — Plant Manager — 918-272-3999
Name of Contact — Position — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		- Last ACSCER reported unresolved indicated no stormwater runoff issues.
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03		- Stormwater from the facility discharges thru Outfall 001.
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10	X	
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		- Stormwater monitoring program appears to be adequate.
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: ____ (Contract laboratory) ____ (Facility) Samples analyzed by: ____ (Contract laboratory) ____ (Facility)	*13		
	606-11-2	Approved analytical procedures and equipment used	14		* There are deep rooted vegetation in T01 that needs to be trimmed as required by Compliance Schedule in the Permit No. OKG11T212.
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		total retention facility
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Aaron C
Environmental Specialist — Employee ID#

X Kenny Henderson — PLANT MANAGER
Copy received by — Title

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: 6/6/13 (date)
37 : Refer to WQD

Date: 5/14/13

Total number of items marked: 1

Number of critical items marked: 0

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : D1 Discharging Lagoon (min)

DEQ FORM # 616-530B (Rev. 10/2005)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002740 Permit No. OKG11T212 County Tulsa SIC

Sherwood Construction Co. dba Greenhill Concrete — Name of Facility
5411 N. 145th Ave — Address
Owasso — City
74055 — Zip

Name of Owner — Address — City — Zip

Kenny Henderson — Name of Contact
Plant Manager — Position
918-272-3999 — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		Big Deep rooted vegetation vegetation in T01 has been removed. There are still small deep rooted vegetation in T01 that needs to be removed.
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03		
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10	✓	
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: _____ Contract laboratory _____ Facility Samples analyzed by: _____ Contract laboratory _____ Facility	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		Total Retention
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

[signature] Employee ID# _____
Environmental Specialist

[signature] 6-12-13
Copy received by — Title

DEQ FORM # 616-530B (Rev. 10/2005)

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. _____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: next inspection
37 : Refer to WQD — date

Date: 6 / 12 / 13 6-12-13

Total number of items marked: 1

Number of critical items marked: NA

TYPE CLASS
74 : R — Lagoon, Total Retention
74 : L — Land Application
74 : D — Discharging Lagoon (maj)
74 : D1 — Discharging Lagoon (min)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

7013 0600 0002 2902 1043

MARY FALLIN
Governor

October 4, 2013

CERTIFIED MAIL

Environmental Manager
Sherwood Construction Company, Inc.
P.O. Box 10
Catoosa, OK 74015

Re: Application for Renewal of General Permit Authorization OKG11
Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile, Tulsa County
Permit No: OKG11T212
Facility ID: I-72002740

Dear Environmental Manager:

The above referenced general permit will expire on January 4, 2013. The Oklahoma Department of Environmental Quality (ODEQ) requests that you submit a General Permit Authorization application in order to renew your Concrete Batch Plant authorization. An application form is enclosed for your convenience. It should be filled out completely, signed, and returned to this office no later than January 4, 2013.

In accordance with OAC 252:616-3-3 of the DEQ rules, effective July 1, 2011 an application fee is due when submitting an application for a permit authorization. The application fee is non-refundable and is due when an application is filed with the DEQ. A summary is enclosed describing your application fee. Please detach and return the bottom half with your payment.

If this facility is no longer in existence or in use, please contact us regarding a closure plan for the existing permit. If you have already completed and submitted an application please notify us as soon as possible. Thank you very much for your cooperation.

If you have questions regarding this matter, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

BT/ab

printed on recycled paper with soy ink

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION CHARGE

Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, Oklahoma 73101

To: Environmental Manger
Sherwood Construction Company, Inc.
P.O. Box 10
Catoosa, OK 74015

Permit Number:	OKG11T212
Facility ID Number:	I-72002740
Site:	Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile

Description	Charge Code	Type of Permit	Price	Total
Wastewater Application Fee	100872	General Authorization	$100.00	$100.00
			Total Amount Due:	$100.00
			Amount Received:	$0.00
			Amount Due:	$100.00

Please detach and return with payment to:

Oklahoma Department of Environmental Quality
Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, OK 73101

To: Alisha A. Barham (405) 702-8206

From: Environmental Manager
Sherwood Construction Company, Inc.
P.O. Box 10
Catoosa, OK 74015

Wastewater Application Fee Charge Code:	100872
Permit Number:	OKG11T212
Facility ID Number:	I-72002740
Site:	Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile
Date:	
Amount Enclosed:	

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sherwood Cannot Co
PO Box 10
Catoosa OK 74015

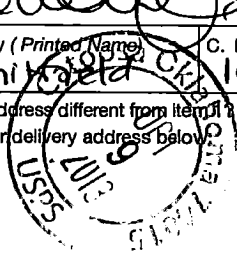
72002740

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Tina White C. Date of Delivery 10/9/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No



3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7013 0600 0002 2902 1043

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

AUTO FACTORY USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 6.31

Sent To: Sherwood Const Co

Street, Apt. No.; or PO Box No.: PO Box 10

City, State, ZIP+4: Calvoca OK 74015

PS Form 3800, August 2006 — See Reverse for Instructions

7013 0600 0002 2902 1043

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

7013 1710 0001 9909 1919

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

November 4, 2013

CERTIFIED MAIL

Environmental Manager
Sherwood Construction Company, Inc.
P.O. Box 10
Catoosa, OK 74015

Re: Application for Renewal of General Permit Authorization OKG11
Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile, Tulsa County
Permit No: OKG11T212
Facility ID: I-72002740

Dear Environmental Manager:

On October 4, 2013, a letter was sent to you requesting a renewal application to filled out for the above referenced general permit which will expire on January 4, 2014. The Oklahoma Department of Environmental Quality (ODEQ) requests that you submit a General Permit Authorization application in order to renew your Concrete Batch Plant authorization. An application form is enclosed for your convenience. It should be filled out completely, signed, and returned to this office no later than January 4, 2014.

In accordance with OAC 252:616-3-3 of the DEQ rules, effective July 1, 2011 an application fee is due when submitting an application for a permit authorization. The application fee is non-refundable and is due when an application is filed with the DEQ. A summary is enclosed describing your application fee. Please detach and return the bottom half with your payment.

If this facility is no longer in existence or in use, please contact us regarding a closure plan for the existing permit. If you have already completed and submitted an application please notify us as soon as possible. Thank you very much for your cooperation.

If you have questions regarding this matter, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

BT/ab

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION CHARGE

Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, Oklahoma 73101

To: Environmental Manger
Sherwood Construction Company, Inc.
P.O. Box 10
Catoosa, OK 74015

Permit Number:	OKG11T212
Facility ID Number:	I-72002740
Site:	Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile

Description	Charge Code	Type of Permit	Price	Total
Wastewater Application Fee	100872	General Authorization	$100.00	$100.00
			Total Amount Due:	$100.00
			Amount Received:	$0.00
			Amount Due:	$100.00

Please detach and return with payment to:

Oklahoma Department of Environmental Quality
Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, OK 73101

To: Alisha A. Barham (405) 702-8206

From: Environmental Manager
Sherwood Construction Company, Inc.
P.O. Box 10
Catoosa, OK 74015

Wastewater Application Fee Charge Code:	100872
Permit Number:	OKG11T212
Facility ID Number:	I-72002740
Site:	Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile
Date:	
Amount Enclosed:	

PERMITTING GROUP

F1C2

PERMIT APPLICATION ROUTING SLIP

Routing Sequence:

Task		Routed to Name	Date	By
Application received (date-stamped) and copied		[redacted]	11/4/13	[signature]
Application routed to permitting manager for initial review	Previous Permit Writer			
	[redacted]			
Routed to permit engineering staff		Brandon	11/5/13	[signature]

Check Information	Check number or CC for Credit Card	Amount	Date Rcv'd	Rcv'd By
	6000	$100.00	11/1/13	ASK

Facility Name: Greenhill Concrete Products, Inc. **County:** Rogers

Permitting Group Use Only

Permit Type	Application Form(s) Required
☐ Municipal Major (OK00)	2M1
☐ Municipal Minor (OK00)	2M2
☐ Municipal Discharging Lagoon (OKG58)	2MG58
☐ Municipal Filter Backwash (OKG38)	2MW
☐ Industrial Major (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Minor (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Surface Impoundment (WD, CW, or W)	1 and 2SI (2L as needed)
☐ Class III Surface Impoundment GP (OKGC3T)	GC3T
☐ Surface Coal Mine GP (OKG04)	G04
☐ Concrete Batch Plant GP – Discharge (OKG11)	G11
(check 1 box) ☒ Concrete Batch Plant GP – Total Retention (OKG11T)	G11
☐ Mobile Concrete Batch Plant GP – Total Retention (OKG11MT)	G11MT
☐ Mobile Concrete Batch Plant GP – Relocation (OKG11MT)	G11MTR
☐ Hydrostatic Test Project GP (OKG27)	G27
☐ Vehicle Wash GP – Discharge (OKG75)	G75
☐ Vehicle Wash GP – Total Retention (OKG75T)	G75
☐ UST Remediation GP (OKG83)	G83
☐ Rock, Sand, & Gravel Quarry GP – Discharge (OKG95)	G95
☐ Rock, Sand, & Gravel Quarry GP – Total Retention (OKG95T)	G95
☐ Industrial User/Pretreatment (OKP003)	Form 1 and 606-008

(check 1 box) ☐ **New Pmt** ☒ **Renewal** ☐ **Modification** ☐ **Resubmission** ☐ **Pmt Conversion**

Facility ID No. 72002740 ☐ **Relocation**

Permit No. OKG11T212

Old Permit No. (for conversions only) _____

Comments:

CONCRETE BATCH PLANT
GENERAL PERMIT OKG11 RENEWAL AUTHORIZATION

Prepared for:

Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa,OK 74105

October 2013

Superior Environmental Compliance, Inc.
P.O. Box 1822
Catoosa, OK 74015

Superior. Always.

October 28, 2013

Mr. Brandon Tyler
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Renewal Application, OPDES Permit No. OKG11T212, Greenhill Concrete Products, Inc. Main Plant, Facility ID No. I-72002740.

Dear Mr. Tyler:

Attached please find a General OPDES Permit Renewal Application that we are filing on behalf of our client, Greenhill Concrete Products, Inc., for its Main Concrete Batch Plant located in Rogers County, Oklahoma.

The facility currently operates with a total retention permit. The plant will remain a total retention facility, since flows to T01 seldom occur and this pond has never discharged to the best of anyone's knowledge.

Please feel free to contact me (randy.beeson@secompliance.com) or Mr. Matt Ritchie (mattr@greenhillconcrete.com) if you have any questions regarding this application.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb
Enclosure

Cc: Greenhill Concrete Products, Inc.

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com |www.superiorenviro.com

FORM 606-G11	OKLAHOMA DEQ	APPLICATION FOR AUTHORIZATION UNDER GENERAL PERMIT NO. OKG11 **CONCRETE BATCH PLANTS**

A. TYPE OF AUTHORIZATION REQUESTED (Applies to all applicants)

NEW		RENEWAL		MODIFICATION		DISCHARGE		IMPOUNDMENT	
	x								

B. NAME OF FACILITY (Applies to all applicants)

Greenhill Concrete Products, Inc.

C. FACILITY CONTACT (Applies to all applicants)

1. NAME & TITLE	2. PHONE (area code & number)
Matt Ritchie	918-266-6861

D. FACILITY MAILING ADDRESS (Applies to all applicants)

1. STREET OR P.O. BOX	2. TELEFAX (area code & number)	
P.O. Box 10	918-266-6482	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Catoosa	OK	74015

E. FACILITY LOCATION (Applies to all applicants)

1. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	2. COUNTY	
5411 N. 145th East Avenue	Rogers	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Owasso	OK	74055

6. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)

NW/4, Section 10, Township 20 North, Range 14 East, Rogers County, OK

F. OPERATOR INFORMATION (Applies to all applicants)

1. NAME	2. Is the operator also the owner?			
Greenhill Concrete Products, Inc.	YES	x	NO	
3. STATUS OF OPERATOR (enter appropriate letter in box; if "Other," specify)			**4. PHONE** (area code & number)	
F = FEDERAL, S = STATE, P = PRIVATE; M = PUBLIC (other than federal or state), O = OTHER (specify)	P	(specify)	918-266-6861	
5. STREET OR P.O. BOX			**6. TELEFAX** (area code & number)	
P.O. Box 10			918-266-6482	

7. CITY OR TOWN	8. STATE	9. ZIP CODE	G. Is facility located on Indian land?			
Catoosa	OK	74015	YES		NO	x

H. MAP (Applies to all applicants)

1. Attach a topographic map (or plat or aerial photo if a topographic map is unavailable) extending one mile beyond the property boundaries. The map must show the outline of the facility, the location of each of its outfalls, surface impoundments, septic tank systems, vehicle wash pads, storage facilities, and containment devices; and those wells, springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant.
2. Attach a facility site plan showing the location of any buildings, outfalls (discharge points), surface impoundments, septic tank systems, vehicle wash pads, materials storage piles, other storage facilities, containment devices, driveways, parking areas and other permanent structures. A site plan prepared for another state agency may be acceptable provided the wastewater storage, treatment and disposal information is indicated thereon.

I. SIC CODES (4-digit, in order of priority) (Applies only if the facility has activities in addition to concrete batching)

1. FIRST		2. SECOND	
(number) 3273	(specify) Concrete batch plant	(number)	(specify)

J. STORM WATER PERMITTING (Applies to all applicants)

Does facility have a Stormwater Pollution Prevention Plan (SWP3) on file at the Facility? If not, a SWP3 plan must be prepared before an Authorization under this General Permit can be issued.	YES	x	NO	

FOR OFFICIAL USE ONLY

AUTHORIZATION NO.	FACILITY ID NO.	
OKG110____ OKG11T____	I- ENGINEER: _____	RECEIVED NOV 04 2013 WATER QUALITY DIVISION Date Stamp

K. NATURE OF BUSINESS (Applies to all applicants)

1. PRODUCTS AND SERVICES

a. Is this facility a central mix plant or transit mix plant?	Central	x	Transit	
b. Will facility operations be seasonal or temporary in nature?	Seasonal		Temporary	x

c. If so, indicate the anticipated seasons of operation and/or life of the facility.

2. FACILITY OPERATIONS

a. Process/Operation	b. Product	c. Daily Quantity (units)
Concrete Batch Plant	Ready Mix Concrete	350 cy/day (average)

d. Briefly describe any practices used for recycling/reuse of wastewater (concrete make-up water, wash water, reuse for construction/stabilization, land application for dust suppression, etc.)

Wash water is reused to clean mixer drums. A portion of the wastewater is land applied for dust suppression.

e. Briefly describe facility housekeeping practices. Indicate whether mix plant area housekeeping uses dry clean-up or water washdown. If water washdown is used, indicate whether and how washdown water is segregated from mix plant area storm water.

Washdown water is captured in F02 for reuse in mixer washout. Pond F01 was recently closed and replaced with Pond F02.

3. Date facility began/will begin operations: Existing Facility

4. Number of employees at this location: Approximately 25

5. Facility normally operates: 8-10 hours per day, 5-7 days per week, in 1 shifts.

L. SOURCES OF WATER SUPPLY AND AMOUNT USED (Applies to all applicants)

Identify all sources of facility water by entering the appropriate letter(s) in the boxes below and then providing the appropriate description(s), as indicated in parentheses. List each source on a separate line. If you have more than one source of a given type, indicate this by entering the letter, followed by two digits (e.g., if your water comes from three wells, the sources would be indicated as G01, G02 and G03). For each source, estimate of the average daily use. Continue on additional sheets if needed.

G = GROUNDWATER WELL	(legal description of well location)
S = SURFACE WATER	(name of stream, river, lake, etc., and legal description of intake)
P = PUBLIC WATER SUPPLY	(name of entity from which water is obtained)
W = WASTEWATER TREATMENT PLANT	(name of entity from which water is obtained)
O = OTHER	(source of supply, and legal description if applicable)

1. SOURCE	2. DESCRIPTION	3. AVG. DAILY USE (GPD)
P	City of Tulsa Public Water Supply	8,000 gpd (average)

M. INVENTORY OF CHEMICALS AND RAW MATERIALS (Applies to all applicants)

1. List all chemical compounds and raw materials in containers of 55 gallons or more, used in plant operations and stored outside a building (e.g., solvents, cleaning compounds, water treatment chemicals). Describe the storage location and the purpose for which each chemical is used. Continue on additional sheets if needed.

No change since previous submittal of April 27, 2012.

2. Attach Material Safety Data Sheets (MSDS) for any additives, detergents, spray oils or treatment chemicals used.

N. OUTFALL LOCATION (Applies only to applicants that discharge wastewater to waters of the state)

1. For each outfall, list the legal description (¼, ¼, ¼, Section, Township, Range) to the nearest 10 acres and the name of the receiving water. Outfalls should be numbered 001, 002, etc. Continue on separate sheets if necessary.

a. ID NO.	b. LEGAL DESCRIPTION	c. RECEIVING WATER
NA		

2. For each outfall, list the latitude and longitude. Continue on separate sheets if necessary.

a. ID NO.	b. LATITUDE	c. LONGITUDE
NA		

O. FLOWS, SOURCES OF WASTE, AND TREATMENT (Applies to all applicants)

1. Attach line drawing showing water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units (grit traps, oil/water separators, surface impoundments, etc.) labeled to correspond to the more detailed descriptions in Item 2. Indicate disposal pathways of the wastes and wastewaters, including evaporation, recycle, discharge, solid waste storage, septic tanks, impoundments, land application, landfill or other pathways. Provide a water balance (measured or estimated) on the line drawing that shows average flows between sources, unit processes and disposal pathways.
2. For each outfall (001, 002, etc.), provide a description of: (1) All operations and other sources of pollution which contribute waste to the outfall, including but not limited to process wastes, sanitary wastes, and stormwater; and (2) The average, maximum and minimum flows contributed by each operation or other source of pollution. Provide the same information for any surface impoundments (F01, F02, T01, T02, etc.) used for treatment or disposal. Continue on additional sheets if needed.

a. ID NO.	b. OPERATION(S)/SOURCE(S)	c. DAILY FLOW (GPD)		
		(1) AVERAGE	(2) MAXIMUM	(3) MINIMUM
NA				

P. EFFLUENT CHARACTERISTICS (Applies only to applicants that discharge wastewater to waters of the state)

1. Report estimated amounts (daily maximum and daily average) of the listed pollutants to be discharged from each of your outfalls, and the source of information. For pH, indicate daily maximum and daily minimum. Data for each outfall should be on a separate page. Continue on separate sheets if necessary.

Outfall No. ____

a. Pollutant	b. Maximum Daily Value (units)	c. Average Daily Value (units)	d. Source of Information
Flow	NA		
Chemical Oxygen Demand (COD)			
Oil and Grease			
Total Suspended Solids (TSS)			
pH			
Alkalinity			

Q. IMPOUNDMENT LOCATION (Applies only to applicants that use surface impoundments for treatment/disposal)

For each industrial surface impoundment, provide the ID number, legal description, and indicate if the impoundment is located in the 100 year flood plain. If the impoundment(s) have previously been permitted, use the ID number(s) contained in the previous permit. If the impoundment(s) have not previously been permitted, ID numbers should be assigned using the appropriate letter followed by two digits (e.g., if you have three flow-through impoundments, their ID numbers would be F01, F02 and F03). Each type of impoundment should be numbered separately (e.g., if you have one flow-through and one total retention impoundment, their ID numbers would be F01 and T01, rather than F01 and T02). Use the same numbers throughout this form. Continue on additional sheets if needed.

F = FLOW-THROUGH SURFACE IMPOUNDMENT T = TOTAL RETENTION SURFACE IMPOUNDMENT

1. ID NO.	2. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)	3. FLOOD PLAIN (yes or no)
F02	Center, NW/4, Section 10, T20N, R14E	No
T01	Center, NW/4, Section 10, T20N, R14E	No

R. IMPOUNDMENT AND LINER INFORMATION (Applies only to applicants that use surface impoundments for treatment/disposal)

1. For each impoundment, attach drawings or plans with the following: (1) Length and width at top and bottom; (2) Total depth; (3) Designed minimum and maximum freeboard; (4) Interior and exterior side-slopes (ratio of horizontal to vertical distances); and (5) Inlet and outlet structures.

2. For each impoundment, list the holding capacity in gallons (assuming a minimum freeboard) and the dimensions in feet. The following abbreviations are used in the table to indicate the various impoundment dimensions. Continue on separate sheets if necessary.

BW = BOTTOM WIDTH TW= TOP WIDTH D = DEPTH
BL= BOTTOM LENGTH TL = TOP LENGTH F = MINIMUM FREEBOARD

a. ID NO.	b. HOLDING CAPACITY (gallons)	c. DIMENSIONS (1) BW (ft)	(2) BL (ft)	(3) TW (ft)	(4) TL (ft)	(5) D (ft)	(6) F (ft)
F02	59,441	33.67	59	33.67*	59	0-8' (ave. =4')	3
T01	4,978,500	165	195	172	200	20	3+
	*Sidewalls are comprised of vertical concrete blocks.						

3. In the table below, list the type of liner material (e.g., excavated soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. List the thickness (in inches, feet, or mils) and permeability rate (in inches/hour or centimeters/second) of each liner as proposed or as built. Also list the type of soil (series name and USDA texture) underlying the impoundment. Continue on separate sheets if necessary.

a. ID NO.	b. LINER TYPE	c. THICKNESS (units)	d. PERMEABILITY (units)	e. SOIL TYPE (1) SERIES NAME	(2) USDA TEXTURE
F02	Limestone Bedrock	~90 feet	0.00 to 0.06 in/hr	CmB	SiL-SiCL
T01	Limestone Bedrock	~90 feet	0.00 to 0.06 in/hr	CmB	SiL-SiCL

4. For each impoundment, list the actual or engineering estimate of the volume of sludge generated annually. Indicate whether the sludge will be periodically removed from the impoundment (give frequency of removal and how sludge will be disposed) or will accumulate in the impoundment as a site of final disposal. Also indicate wbether you possess analytical data on the sludge generated in each impoundment. Continue on separate sheets if necessary.

F02 - Approximately 468 TPY of concrete washout/sludge is removed from the pond annually.

T01 - Very little, if any, sludge accumulates in this impoundment which is normally dry.

5. Describe the treatment purpose of each cell or impoundment (e.g., settling, oil/water separation, aeration, evaporation, or final disposal). List any chemicals and equipment used for eacb treatment method. Continue on separate sheets if necessary.

a. ID NO.	b. TREATMENT (1) DESCRIPTION	(2) CHEMICALS/EQUIPMENT
F02	Settling trap for truck washout	None
T01	Evaporation of wastewater from plant ops	None

S. GROUNDWATER INFORMATION (Applies only to applicants that use surface impoundments for treatment/disposal)

1. For each surface impoundment, list the depth to groundwater, the direction of groundwater flow, and the legal description of each well used to determine groundwater information. Continue on additional sheets if necessary.

1. ID NO.	2. DEPTH TO WATER (feet)	3. DIRECTION OF FLOW	4. LEGAL DESCRIPTION OF WELL
T02	90+ feet	South toward Bird Creek	NA
F01	90+ feet	South toward Bird Creek	NA

2. For each well (water and monitoring), attach the well log or drillers log, if available. Well logs may be obtained from the Oklahoma Water Resources Board (OWRB). If no water or monitoring wells are found within ½ mile, attach a copy of the OWRB letter indicating no wells were found in their records search.

T. SANITARY WASTEWATER DISPOSAL (Applies to all applicants)

1. In the table below, list the estimated volume of sanitary wastewater and the method of sanitary wastewater disposal.

a. VOLUME OF SANITARY WASTEWATER	b. METHOD OF SANITARY WASTEWATER DISPOSAL
	Port-A-Potties

U. OTHER DISPOSAL METHODS (Applies to all applicants)

Briefly describe any other methods of waste disposal used by your facility. Examples include disposal wells, septic tanks (with or without leach fields), aboveground or underground storage tanks, and waste hauling. Include information on the nature and volume of wastes disposed of by each of these other methods. Continue on additional sheets if necessary.

No other methods are in use.

V. DEQ LANDOWNER NOTIFICATION AFFIDAVIT (Applies to all applicants)

1. Does applicant own all land subject to the application:	Yes		No	X

If yes, proceed to section W. If no, proceed to part 2 of this section.

2. Application(s) for which the applicant does not own all the land subject to the application must notify the owner(s) of leases and/or pipeline right-of-ways that a permit application has been submitted to the DEQ. The basis for this requirement is OAC 252:004-7-13(b). DEQ Form 100-810 shall be used for this purpose and is available on the DEQ web page.

W. CERTIFICATION (Applies to all applicants)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. NAME & OFFICIAL TITLE (type or print)	2. SIGNATURE	3. DATE SIGNED
Matt Ritchie, Materials Manager	Matt Ritchie	10/25/13

ATTACHMENT 1

Landowner's Affidavit

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II or III permit applicants must provide notice to the landowner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:4-7-13 (b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)
	My application does not involve any land.
	My application involves only land owned by me (or applicant business).
X	I have a current lease given to accomplish the permitted purpose.
	I have a current easement given to accomplish the permitted purpose.

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	**X**	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		

LANDOWNER AFFIDAVIT CERTIFICATION			
I, as the applicant or an authorized representative of the applicant, hereby certify that I own the real property, have a current lease or easement which is given to accomplish the permitted purpose (per Option A above), or have provided legal notice to the landowner(s) (per Option B above) about the permit application for the facility described below.			
Company Name	Greenhill Concrete Products, Inc.	Facility Name	Greenhill Concrete
Facility Address or Legal Description.	5411 N. 145th E. Ave., Owasso, OK 74055		
Responsible Official (signature)	Matt Ritchie	Date Signed	10/25/13
Responsible Official (typed)	Matt Ritchie	Title	Materials Manager

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) _____

(Applicant name) _____ has filed a permit application with the Oklahoma Department of Environmental Quality for (Facility Name) _____ facility.

This application involves the land owned by you located at:

Address or Legal Description: _____

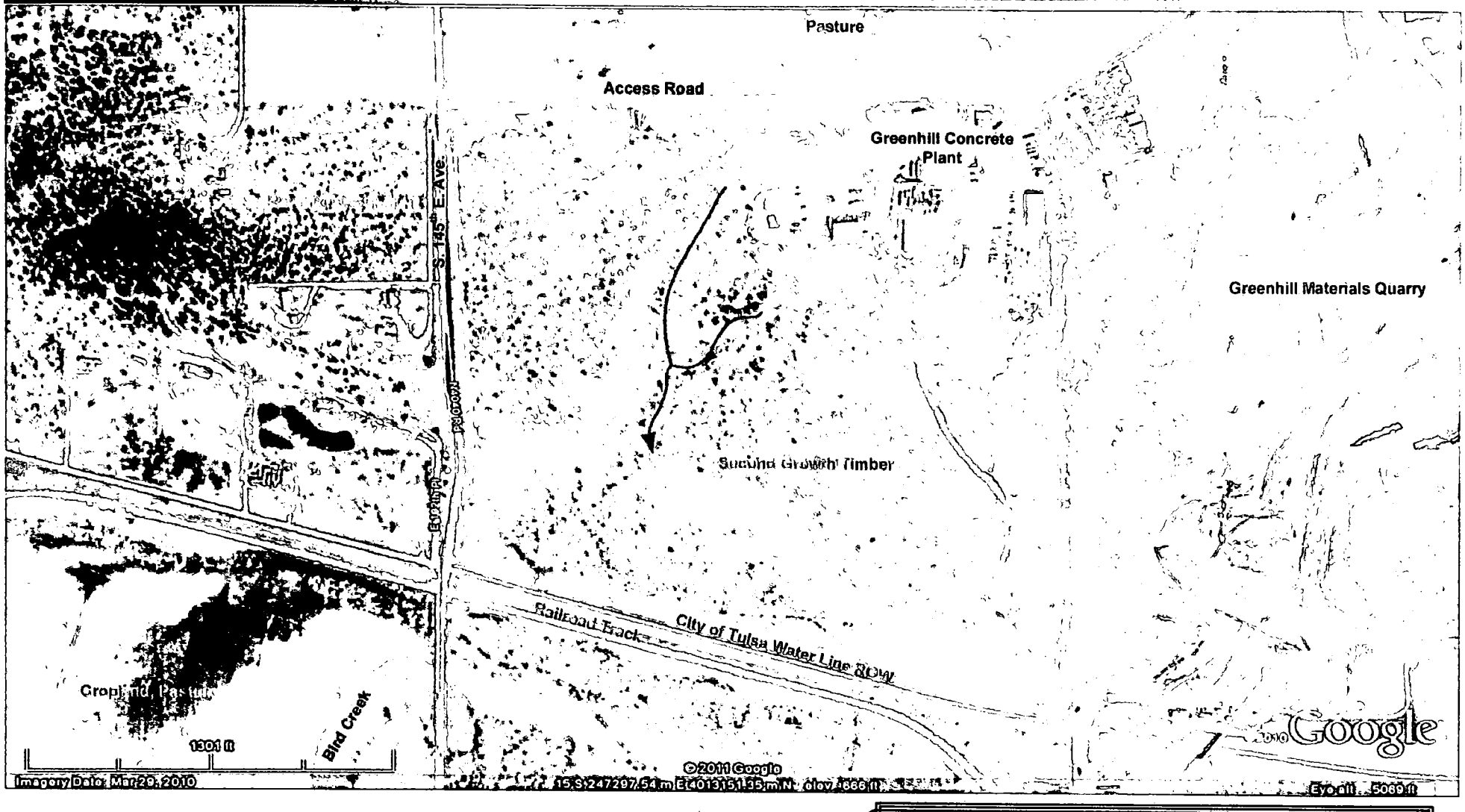
_____

Signed: _____ Date: _____

ATTACHMENT 2

Site Figures

Greenhill Concrete Products, Inc., Owasso, OK



SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

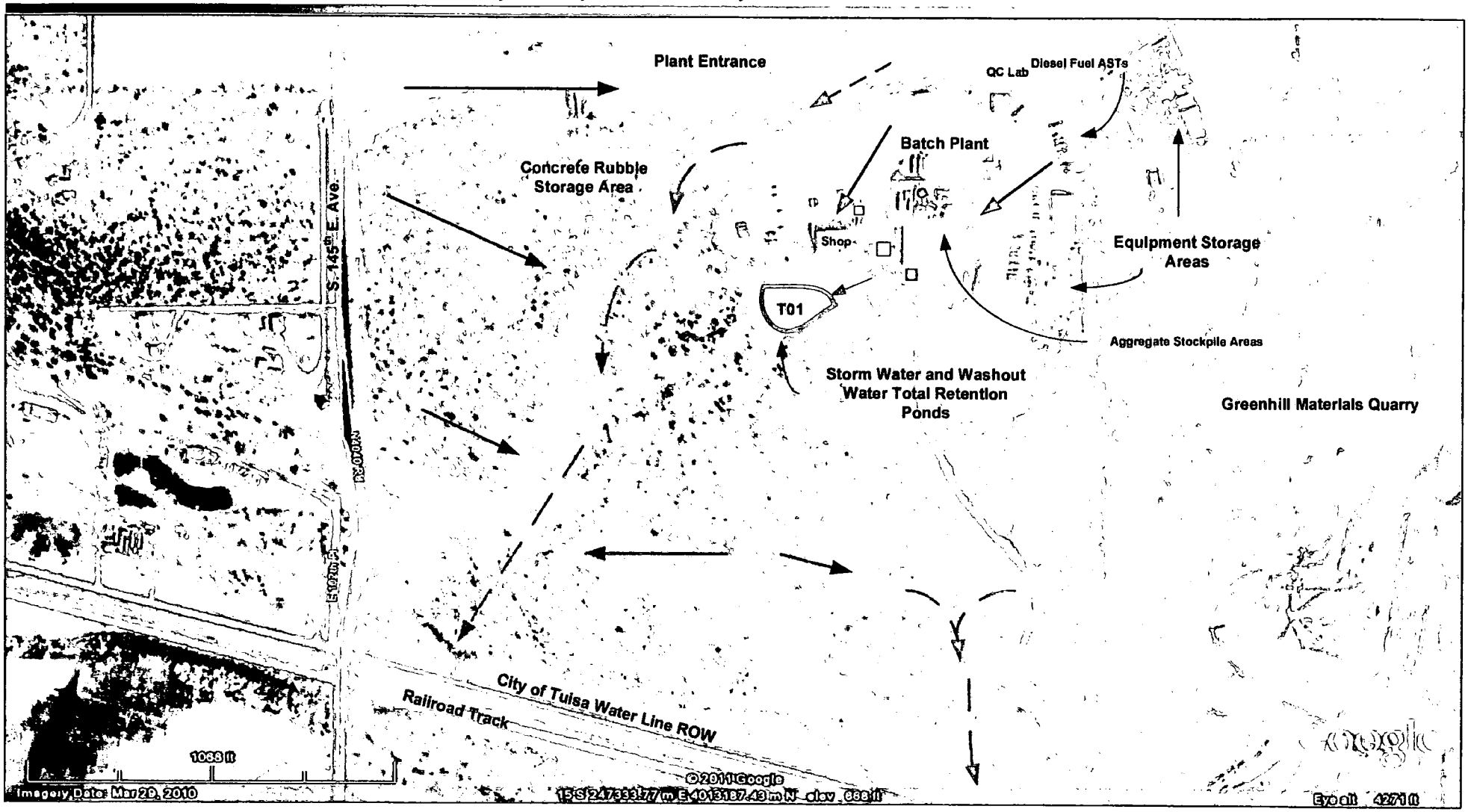
Figure 1

Vicinity Map

April 13, 2011

N

Greenhill Concrete Products, Inc., Owasso, OK



LEGEND

- Surface Water Drainageway
- Direction of Surface Water Drainage
- Dumpster Location
- Fly Ash Silo w/ Bin Vent
- Location of Replacement F01 Pond (F02)
- Location of Current F01 Pond

SUPERIOR ENVIRONMENTAL COMPLIANCE, LLC

Figure 2

Site Layout Map

Modified April 27, 2012

N

Greenhill Concrete Products, Inc., Owasso, OK

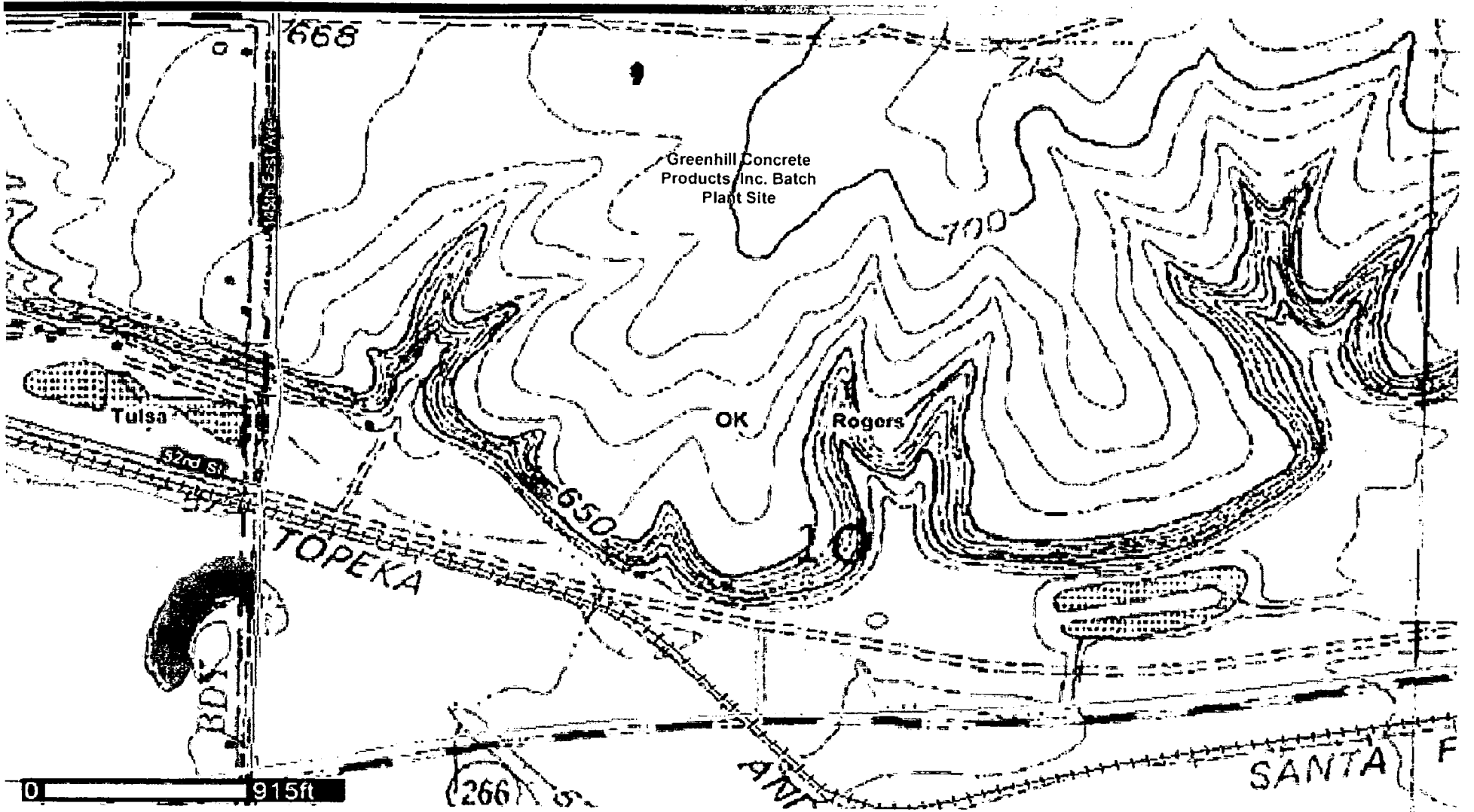


Figure 3

Site Topo Map

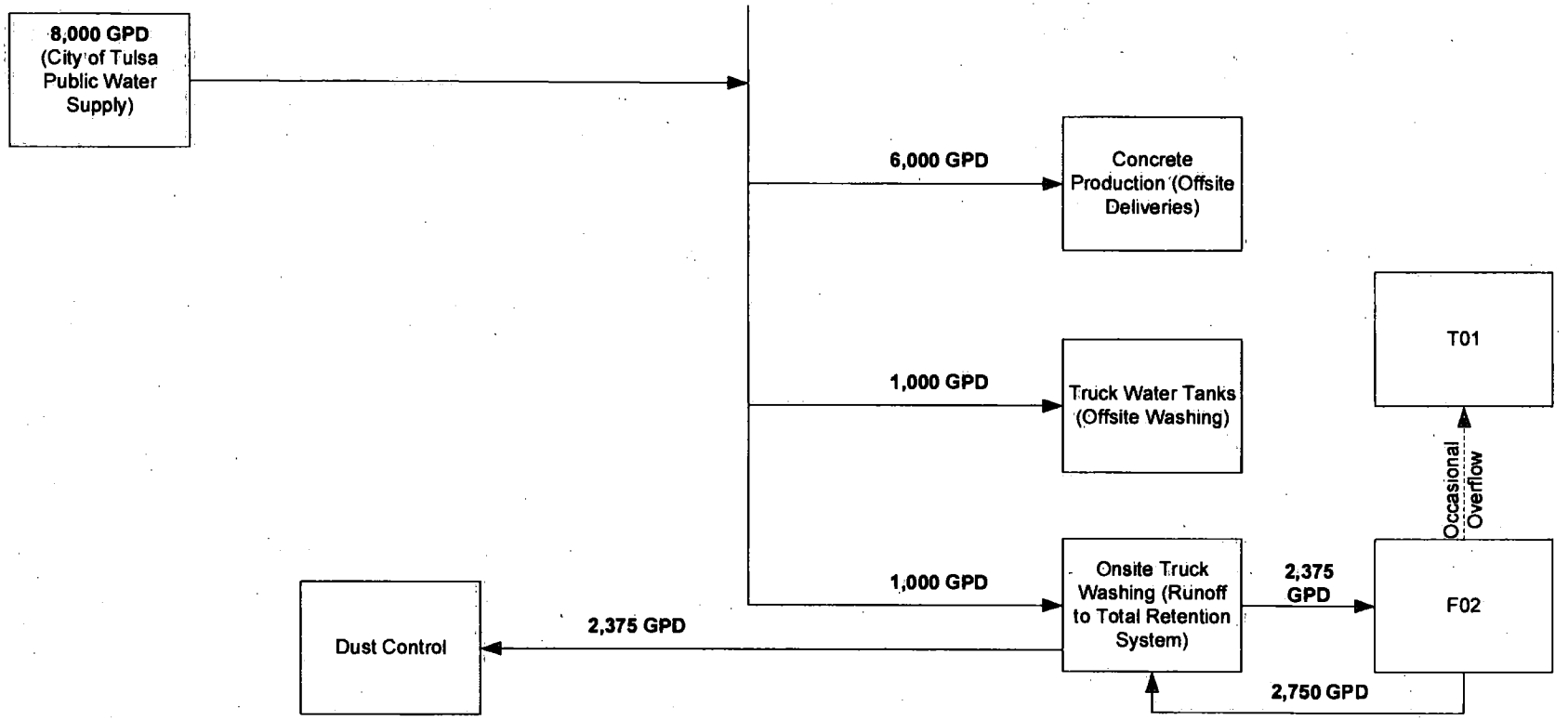
April 13, 2010

N

ATTACHMENT 3

Line Drawing

Greenhill Concrete Products, Inc., Owasso, OK



SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Water Use Line Drawing

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

November 8, 2013

Environmental Manager
Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile
P.O. Box 10
Catoosa, OK 74015

Re: Renewal of General Permit OKG11
Sherwood Construction Co., Inc. dba Greenhill Concrete - Mobile, Tulsa County
Permit No: OKG11T212
Facility ID: I-72002740

Dear Environmental Manager:

This letter is to inform you that the Oklahoma Department of Environmental Quality (ODEQ) has prepared a draft General Permit renewal for all Concrete Batch Plants. This draft is in the process of being publicly noticed by the ODEQ. After the public notice process, the ODEQ will issue the new general permit.

Because the General Permit has not yet been renewed, the ODEQ has elected to place all applications for Concrete Batch Plant authorizations on hold until the permit renewal process has been completed. The terms and conditions of your existing authorization will remain in effect until you are issued a new authorization. If you have any questions regarding this matter please contact Brandon Tyler at (405) 702-8215. Thank you for your cooperation.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

ab

printed on recycled paper with soy ink

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-7200240 | Permit No. OKG11T212 | County Rogers/Tulsa | SIC

Sherwood Construction Co. — Name of Facility | 5411 N. 145th East Ave — Address | Owasso — City | 74055 — Zip

Greenhill Concrete Products, Inc. — Name of Owner | PO Box 10 — Address | Catoosa — City | 74015 — Zip

Stanley Shause — Name of Contact | Kenny Henderson | Batchman — Position | Phil Rush | (918) 272-3999 — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01	X	Not OD
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02	X	Concrete trucks fill drums with wastewater and empties wash water onto geoground south of impoundments
	616-7-1	Treatment system properly operated and maintained	03		01 & 02 Facility has two unpermitted impoundments- one next to F01 & one next to T01
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06	X	
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10	X	(10) Deep-rooted vegetation observed in T01
	616-5-1	Facility and/or impoundment access restricted	11	X	
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12	X	⇒ Sign needs to be updated with current permit #
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ**	*13		* Need to keep 3 yrs of records on file with SWP3 by next inspection
		Samples collected by: ____ (Contract laboratory) ____ (Facility)			• Record dates on annual training records
		Samples analyzed by: ____ (Contract laboratory) ____ (Facility)			
Total Retention Facility	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

SWP3 developed

* Quarterly site inspections, Quarterly Visual Monitoring, Annual training, ACSCER

⇒ Conducted by RJ Beeson and emailed to Kenny Henderson ⇒ 2012 on file, 2011

Wastewater from plant mix area → Small flow through impoundment → Larger flow through → total retention imp. ⇒ Second impoundment ⇒ Underdrain

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Carrie Evenson — Environmental Specialist

Michele Loudenback — Employee ID#

Copy received by

PLANT MANAGER — Title

DEQ FORM # 616-530B (Rev. 10/2005)

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: ____ date
37 : Refer to WQD

Date: 11 / 14 / 2013

Total number of items marked: 5

Number of critical items marked: 2

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : DI Discharging Lagoon (min)

Carrie Evenson, Ph.D., P.E (405) 702-8136 carrie.evenson@deq.ok.gov
Michele Loudenback, EPS (405) 702-8116

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

Superior. Always.

January 3, 2014

Mr. Brandon Tyler
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

Re: Minor Modification, Sherwood Construction Company, Inc. (Greenhill Concrete Products, Inc.) Concrete Batch Plant, 1601 E. Houston Street, Broken Arrow, OK 74012. Facility ID No. I-72002620. Permit No. OK0045781.

Dear Brandon:

Based on our recent telephone conversation, on behalf of Sherwood Construction Company, Inc., we are submitting this request for a minor modification of the above General Discharge Permit, *viz.*, removal of the shallow groundwater monitoring program in the vicinity of closed Pond F03. Prior to July of this year, the former Tulsa Dynaspan, Inc. property (44 acres M/L) included two dry concrete batch plants operated by Arrow Concrete, a subsidiary of Tulsa Dynaspan. In July, Sherwood Construction Company, Inc. purchased the batch plants and the west 14 acres (M/L) of the property. The concrete batch plants' General Discharge Permit was subsequently transferred into Sherwood's name and the facility is now operated by Greenhill Concrete Products, Inc., a subsidiary of Sherwood.

At the time of the permit transfer, Arrow Concrete's discharge permit required semi-annual sampling, analysis and reporting for the shallow groundwater beneath Pond F03 that had previously been closed. Three temporary monitor wells (MW-1 through MW-3) were present with MW-1 and MW-2 located on the Tulsa Dynaspan property and MW-3 located on the boundary of the Tulsa Dynaspan and Sherwood Construction Company properties.

At the time that Arrow Concrete closed Pond F03, sediment accumulated in the bottom of the pond was removed, disposed offsite and replaced with clean soil, prior to installation of the temporary groundwater monitor wells. Arrow Concrete and Greenhill Concrete have conducted semi-annual groundwater sampling, analysis and reporting, as required by their respective permits. Copies of these reports are attached.

Prior to selling the Arrow Concrete operation to Sherwood Construction Company, Tulsa Dynaspan had ceased production of precast concrete panels at this facility. Since the sale of Arrow Concrete, the eastern 32 acres (M/L) and associated structures have since been leased to Arrowhead Precast, LLC which intends to install its own concrete batch plant in the immediate vicinity of closed Pond F03 in order to supply its planned precast concrete structure operation.

RECEIVED
JAN 08 2014
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com| www.superiorenviro.com

Thus, there will shortly be two separate companies operating industrial facilities on two separate but adjoining properties.

In the meantime, during surveying and establishment of a boundary between the properties, temporary monitor well MW-3 was destroyed and can no longer be accessed for sampling. Thus, both remaining monitor wells are now located on Arrowhead Precast's property but the responsibility for conducting shallow groundwater monitoring remains on Sherwood's General Discharge Permit.

Review of the attached groundwater analytical data does not indicate the presence of any significant level of any of the parameters specified in the permit. Based on these facts, Sherwood Construction Company, Inc. is requesting a minor modification of its General Discharge Permit removing the shallow groundwater monitoring requirement in the vicinity of closed Pond F03.

Please contact me if you or your staff has any questions regarding this request, or if you would like to visit these facilities.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

cc: File
Sherwood Construction Company, Inc.

Attachments:
January 2012 Semi-Annual Report
July 2012 Semi-Annual Report
November 2012 Semi-Annual Report
May 2013 Semi-Annual Report
November 2013 Semi-Annual Report

ARROW CONCRETE COMPANY
GROUNDWATER REPORT
SEMI-ANNUAL REPORT

FACILITY ID I-72002620
PERMIT No. OK0045781

JANUARY 2012

A & M PROJECT No. 2067-006

Prepared for:
Arrow Concrete Company
Broken Arrow, Oklahoma

Prepared by:

A & M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, Oklahoma 74128-4813
Phone (918) 665-6575 and Fax (918) 665-6576
E-mail: aandmengineering.com

Jan 24, 2012

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: Groundwater Monitoring Semi-Annual Report prepared for Arrow Concrete, Broken Arrow, Oklahoma.

Dear, Ms. Chard-McClary

Enclosed is one copy of the First Semi Annual Monitoring Report for Arrow Concrete of Broken Arrow, Oklahoma, conducted in the second half of the year 2011. The report is a requirement as part of the Facilities Stormwater Discharge Permit.

If you have any questions, please call me at (918) 665-6575.

Sincerely,

Ty Ertugrul
Project Manager

Cc: Mike Boley

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

Irfan Taner
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918)665-6574
FAX (918) 665-6576

July 27, 2011
Order No.: T11070195

RE: Arrow Concrete

Dear Irfan Taner:

Green Country Testing, Inc. received 3 samples on 7/14/2011 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analysis was conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604
AR - ADEQ
KS - E-10232
LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan

Approved By: _____
Brian Duzan, Director
Environmental Services

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: A & M Engineering
Lab Order: T11070195
Project: Arrow Concrete

Date Received: 7/14/2011
Date Reported: *27-Jul-11*

Lab ID: T11070195-01 **Collection Date: 7/14/2011 9:50:00 AM** **Sample ID: MW-1**

Matrix: WASTE WATER

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
ALKALINITY		**M2320 B**				MP
Alkalinity, Total (As CaCO3)	300	2.50		mg/L	7/27/2011 9:30:00	
MERCURY IN WATER, TOTAL		**E245.2**				KR
Mercury	< 0.00010	0.00010		mg/L	7/15/2011	
METALS IN WATER BY ICP, TOTAL		**E200.7**				KR
Arsenic	< 0.0200	0.0200		mg/L	7/18/2011 4:18:01	
Barium	0.166	0.0100		mg/L	7/18/2011 4:18:01	
Cadmium	< 0.0100	0.0100		mg/L	7/18/2011 4:18:01	
Chromium	< 0.0100	0.0100		mg/L	7/18/2011 4:18:01	
Lead	< 0.00500	0.00500		mg/L	7/18/2011 4:18:01	
Selenium	< 0.0200	0.0200		mg/L	7/18/2011 4:18:01	
Silver	< 0.00200	0.00200		mg/L	7/18/2011 4:18:01	
PH		**M4500 H+ B**				PB
pH	6.89	0.100		pH units	7/14/2011 6:00:00	
TPH (DIESEL)		**SW8015M/ODEQ**				SW
TPH (Diesel)	< 1.00	1.00		mg/L	7/18/2011	
Surr: p-Terphenyl	89.9	28.5-154		%REC	7/18/2011	
TPH (GASOLINE)		**SW8015M/ODEQ**				SW
TPH (Gasoline)	< 0.0500	0.0500		mg/L	7/18/2011	
Surr: Bromofluorobenzene	87.3	31.7-161		%REC	7/18/2011	
Surr: Trifluorobenzene	78.0	32.4-151		%REC	7/18/2011	
TOTAL SUSPENDED SOLIDS		**M2540-D**				PB
Suspended Solids (Residue, Non-Filterable)	29.0	5.00		mg/L	7/21/2011 7:00:00	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: A & M Engineering
Lab Order: T11070195
Project: Arrow Concrete

Date Received: 7/14/2011
Date Reported: *27-Jul-11*

Lab ID: T11070195-02 **Collection Date: 7/14/2011 10:15:00 A** **Sample ID: MW-2**

Matrix: WASTE WATER

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
ALKALINITY		M2320 B				MP
Alkalinity, Total (As CaCO3)	418	2.50		mg/L	7/27/2011 9:30:00	
MERCURY IN WATER, TOTAL		E245.2				KR
Mercury	< 0.00010	0.00010		mg/L	7/15/2011	
METALS IN WATER BY ICP, TOTAL		E200.7				KR
Arsenic	< 0.0200	0.0200		mg/L	7/18/2011 4:25:01	
Barium	0.308	0.0100		mg/L	7/18/2011 4:25:01	
Cadmium	< 0.0100	0.0100		mg/L	7/18/2011 4:25:01	
Chromium	0.0277	0.0100		mg/L	7/18/2011 4:25:01	
Lead	< 0.00500	0.00500		mg/L	7/18/2011 4:25:01	
Selenium	< 0.0200	0.0200		mg/L	7/18/2011 4:25:01	
Silver	< 0.00200	0.00200		mg/L	7/18/2011 4:25:01	
PH		M4500 H+ B				PB
pH	6.60	0.100		pH units	7/14/2011 6:00:00	
TPH (DIESEL)		SW8015M/ODEQ				SW
TPH (Diesel)	< 1.00	1.00		mg/L	7/18/2011	
Surr: p-Terphenyl	65.2	29.5-154		%REC	7/18/2011	
TPH (GASOLINE)		SW8015M/ODEQ				SW
TPH (Gasoline)	< 0.0500	0.0500		mg/L	7/18/2011	
Surr: Bromofluorobenzene	96.5	31.7-161		%REC	7/18/2011	
Surr: Trifluorobenzene	85.8	32.4-151		%REC	7/18/2011	
TOTAL SUSPENDED SOLIDS		M2540-D				PB
Suspended Solids (Residue, Non-Filterable)	188	5.00		mg/L	7/21/2011 7:00:00	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: A & M Engineering
Lab Order: T11070195
Project: Arrow Concrete

Date Received: 7/14/2011
Date Reported: *27-Jul-11*

Lab ID: T11070195-03 **Collection Date: 7/14/2011 10:45:00 A** **Sample ID: MW-3**

Matrix: WASTE WATER

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
ALKALINITY		**M2320 B**				**MP**
Alkalinity, Total (As CaCO3)	4,000	25.0		mg/L	7/27/2011 9:30:00	
MERCURY IN WATER, TOTAL		**E245.2**				**KR**
Mercury	< 0.00010	0.00010		mg/L	7/15/2011	
METALS IN WATER BY ICP, TOTAL		**E200.7**				**KR**
Arsenic	< 0.0200	0.0200		mg/L	7/18/2011 4:32:02	
Barium	1.42	0.0100		mg/L	7/18/2011 4:32:02	
Cadmium	< 0.0100	0.0100		mg/L	7/18/2011 4:32:02	
Chromium	0.183	0.0100		mg/L	7/18/2011 4:32:02	
Lead	< 0.00500	0.00500		mg/L	7/18/2011 4:32:02	
Selenium	< 0.0200	0.0200		mg/L	7/18/2011 4:32:02	
Silver	< 0.00200	0.00200		mg/L	7/18/2011 4:32:02	
PH		**M4500 H+ B**				**PB**
pH	6.56	0.100		pH units	7/14/2011 8:00:00	
TPH (DIESEL)		**SW8015M/ODEQ**				**SW**
TPH (Diesel)	< 1.00	1.00		mg/L	7/18/2011	
Surr: p-Terphenyl	101	29.5-154		%REC	7/18/2011	
TPH (GASOLINE)		**SW8015M/ODEQ**				**SW**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	7/18/2011	
Surr: Bromofluorobenzene	98.4	31.7-161		%REC	7/18/2011	
Surr: Trifluorobenzene	88.9	32.4-151		%REC	7/18/2011	
TOTAL SUSPENDED SOLIDS		**M2540-D**				**PB**
Suspended Solids (Residue, Non-Filterable)	14,100	50.0		mg/L	7/21/2011 7:00:00	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MH - Matrix Interference
H - Exceeds Holding Time

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6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7750

CLIENT: A & M Engineering
Work Order: T11070195
Project: Arrow Concrete

QC SUMMARY REPORT

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
ALK_W	Alkalinity, Total (As CaCO3)	R49711	MBLK	< 2.5	2.5	mg/L		
	Alkalinity, Total (As CaCO3)	R49711	LCS	96	2.5	mg/L	96	
	Alkalinity, Total (As CaCO3)	R49711	DUP	118	2.5	mg/L	0	1.71
	Alkalinity, Total (As CaCO3)	R49711	DUP	304	2.5	mg/L	0	1.32
BICARB_W	Bicarbonate	R49711	DUP	144	2.4	mg/L	0	1.4
CARB_W	Carbonate	R49711	DUP	< 1.2	1.2	mg/L	0	0
HG_WW	Mercury	R49558	MBLK	< 0.00010	0.0001	mg/L		
	Mercury	R49558	LCS	0.0009696	0.0001	mg/L	97	
	Mercury	R49558	MS	0.001004	0.0001	mg/L	100	
	Mercury	R49558	MS	0.001089	0.0001	mg/L	109	
	Mercury	R49558	MSD	0.0009506	0.0001	mg/L	95.1	5.48
	Mercury	R49558	MSD	0.001172	0.0001	mg/L	117	7.34
MET_WW_ICP	Arsenic	5741	MBLK	< 0.0050	0.005	mg/L		
	Barium	5741	MBLK	< 0.010	0.01	mg/L		
	Cadmium	5741	MBLK	< 0.0010	0.001	mg/L		
	Chromium	5741	MBLK	< 0.010	0.01	mg/L		
	Lead	5741	MBLK	< 0.0050	0.005	mg/L		
	Selenium	5741	MBLK	< 0.0050	0.005	mg/L		
	Silver	5741	MBLK	< 0.0020	0.002	mg/L		
	Arsenic	5741	LCS	1.98	0.005	mg/L	99	
	Barium	5741	LCS	1.977	0.01	mg/L	98.8	
	Cadmium	5741	LCS	1.996	0.001	mg/L	99.8	
	Chromium	5741	LCS	1.985	0.01	mg/L	99.2	
	Lead	5741	LCS	1.978	0.005	mg/L	98.9	
	Selenium	5741	LCS	1.972	0.005	mg/L	98.6	
	Silver	5741	LCS	0.1978	0.002	mg/L	98.9	
	Arsenic	5741	MS	2.005	0.005	mg/L	100	
	Barium	5741	MS	2.01	0.01	mg/L	99.7	
	Cadmium	5741	MS	2.012	0.001	mg/L	101	
	Chromium	5741	MS	3.156	0.01	mg/L	101	
	Lead	5741	MS	1.987	0.005	mg/L	99.4	
	Selenium	5741	MS	2.046	0.005	mg/L	102	
	Silver	5741	MS	0.2008	0.002	mg/L	100	
	Arsenic	5741	MSD	2.013	0.005	mg/L	101	0.359
	Barium	5741	MSD	2.017	0.01	mg/L	100	0.343
	Cadmium	5741	MSD	2.033	0.001	mg/L	102	1.07
	Chromium	5741	MSD	3.204	0.01	mg/L	103	1.5
	Lead	5741	MSD	2.005	0.005	mg/L	100	0.907
	Selenium	5741	MSD	2.045	0.005	mg/L	102	0.0373
	Silver	5741	MSD	0.2031	0.002	mg/L	102	1.24
PH	pH	R49549	LCS	6.02	0.1	pH units	100	
	pH	R49549	DUP	6.55	0.1	pH units	0	0.153
TPHDRO_W	TPH (Diesel)	R49589	MBLK	< 1.0	1	mg/L		
	TPH (Diesel)	R49604	MBLK	< 1.0	1	mg/L		
	Surr: p-Terphenyl	R49589	MBLK	62.2	0.1	mg/L	62.2	

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QC SUMMARY REPORT

CLIENT: A & M Engineering
Work Order: T11070195
Project: Arrow Concrete

TestCode	Analyte	BatchID	QCType	Result	PQL	Units	%Rec	%RPD
	Surr: p-Terphenyl	R49604	MBLK	88.2	0.1	mg/L	88.2	
	TPH (Diesel)	R49589	LCS	109	1	mg/L	109	
	TPH (Diesel)	R49604	LCS	120	1	mg/L	120	
	Surr: p-Terphenyl	R49589	LCS	101	0.1	mg/L	101	
	Surr: p-Terphenyl	R49604	LCS	93.3	0.1	mg/L	93.3	
	TPH (Diesel)	R49589	MS	101	1	mg/L	101	
	TPH (Diesel)	R49604	MS	71.5	1	mg/L	71.5	
	Surr: p-Terphenyl	R49589	MS	82.6	0.1	mg/L	82.6	
	Surr: p-Terphenyl	R49604	MS	95.8	0.1	mg/L	95.8	
	TPH (Diesel)	R49589	MSD	129	1	mg/L	129	24.3
	TPH (Diesel)	R49604	MSD	69.4	1	mg/L	69.4	2.98
	Surr: p-Terphenyl	R49589	MSD	99.4	0.1	mg/L	99.4	18.5
	Surr: p-Terphenyl	R49604	MSD	85.6	0.1	mg/L	85.6	11.2
TPHGRO_W	TPH (Gasoline)	R49587	MBLK	< 0.050	0.05	mg/L		
	Surr: Bromofluorobenzene	R49587	MBLK	155	0.005	mg/L	155	
	Surr: Trifluorobenzene	R49587	MBLK	109	0.005	mg/L	109	
	TPH (Gasoline)	R49587	LCS	82.4	0.05	mg/L	82.4	
	Surr: Bromofluorobenzene	R49587	LCS	99.5	0.005	mg/L	99.5	
	Surr: Trifluorobenzene	R49587	LCS	95	0.005	mg/L	95	
	TPH (Gasoline)	R49587	MS	81.7	0.05	mg/L	81.7	
	Surr: Bromofluorobenzene	R49587	MS	104	0.005	mg/L	104	
	Surr: Trifluorobenzene	R49587	MS	92.7	0.005	mg/L	92.7	
	TPH (Gasoline)	R49587	MSD	79.1	0.05	mg/L	79.1	3.23
	Surr: Bromofluorobenzene	R49587	MSD	100	0.005	mg/L	100	3.92
	Surr: Trifluorobenzene	R49587	MSD	89.9	0.005	mg/L	89.9	3.07
TSS	Suspended Solids (Residue, Non-Filt	R49655	MBLK	< 5.0	5	mg/L		
	Suspended Solids (Residue, Non-Filt	R49655	LCS	39	5	mg/L	97.5	
	Suspended Solids (Residue, Non-Filt	R49655	DUP	30	5	mg/L	0	3.39
	Suspended Solids (Residue, Non-Filt	R49655	DUP	76	5	mg/L	0	1.32

T1070195

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING – ENVIRONMENTAL – CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4813
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
A & M Engineering	Irfan Taner	918-665-6575

PROJECT NUMBER	PROJECT NAME
2067-007	ARROW CONCRETE

SAMPLERS: (Signature) [signature] [signature]

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH ? YES	RUSH ? NO	ANALYTICAL TESTS REQUIRED: Alkalinity	TPH	TSS	pH	Total Metals (see below)							REMARKS
1	7/14/11	9:50		X	MW-1	Liquid	5		X	X	X	X	X	X							
2	↓	10:15		X	MW-2	↓	5		X	X	X	X	X	X							
3	↓	10:45		X	MW-3	↓	5		X	X	X	X	X	X							

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
[signature]	7/14/11	14:20	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Cool on ice @ 2°C

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

December 12, 2011

Turgay Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 409-7988
FAX (918) 656-6576

RE: Arrow Order No.: 1112081

Dear Turgay Ertugrul:

Green Country Testing, Inc. received 1 sample(s) on 12/6/2011 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1112081**

Date Reported: **12/12/2011**

CLIENT: A & M Engineering **Lab Order:** 1112081

Project: Arrow

Lab ID: 1112081-001 **Collection Date:** 12/6/2011 2:30:00 PM

Client Sample ID: MW-3 **Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
TOTAL SUSPENDED SOLIDS				**A2540D**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	73.0	5.00		mg/L	1	12/10/2011 3:00:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Quality Control Report

WO#: **1112081**

12-Dec-11

Analysis: Total Suspended Solids
Method: A2540-D **Batch ID:** **R194**

Method Blank

RunID: 194 Units: mg/L
Analysis Date: 12/10/2011 3:00:00 PM Analyst: PAB

Analyte	Result	Rep Limit	Rep Qual
Suspended Solids (Residue, Non-Filterable)	< 5.00	5.00	

Laboratory Control Sample (LCS)

RunID: 194 Units: mg/L
Analysis Date: 12/10/2011 3:00:00 PM Analyst: PAB

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Suspended Solids (Residue, Non-Filterable)	40.00	39.0	97.5								

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded.
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

DBPix Evaluation

CHAIN OF CUSTODY RECORD

Page: 1 of 1

1112081

Customer Information		Project Information		Analysis/Methods
PO:		Project Name:	Arrow	
WO:		Project Number:		
Company:	A & M ENGINEERING	Bill To:	A & M ENGINEERING	
Report to:	Ty Estygrel	Invoice ATTN:	Ty Estygrel	
Address:		Address:	10010 E 16TH ST	
			TULSA, OK 74128	
E-mail:				
Phone:	918-665-6575	Phone:		
Fax:	918-656-6576	Fax:		

No.	Sample Description	Date	Time	Type	Matrix	# Containers	TSS	COMMENTS
1	mw-3	12/6/11	14:30	G	Gp	1	X	
2								
3								
4								
5								
6								
7								
8								
9								
10								

Sampler:

Shipment Method:

Date Due (fax):

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company: A&M. Eng.	Time: 14:42	Company:	Time: 14:42	Company:	Time:	Company:	Time:
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:

Comments: Rec'd on ice @ 14°C

Standard turn | Other

Rush turn | Cooler Temp:

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www.ammara.com

1ST SEMI-ANNUAL GROUNDWATER

SAMPLING REPORT 2012

ARROW CONCRETE FACILITY
FACILITY ID # 1-72002620
PERMIT NO. OK0045781
BROKEN ARROW, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
ARROW CONCRETE COMPANY – DIVISION OF TULSA DYNASPAN, INC.
1601 EAST HOUSTON
BROKEN ARROW, OKLAHOMA 74012

A & M PROJECT NO. 2067-008

JULY 12, 2012

PREPARED BY
A & M ENGINEERING AND ENVIRONMENTAL SERVICES
10010 E. 16TH STREET
TULSA, OKLAHOMA 74136
AANDMENGINEERING@AANDMENGINEERING.COM
PHONE: (918) 665-6575 FAX: (918) 665-6576

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.
10010 E. 16TH STREET
TULSA, OKLAHOMA 74128-4611
ENGINEERING • ENVIRONMENTAL • CONSTRUCTION
(918) 665-6575 • FAX (918) 665-6576
EMAIL: aandm@aandmengineering.com

July 11, 2012

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: 2012 First Semi-Annual Post Closure Groundwater Monitoring Report for the closed Waste Water Impoundment F03 Arrow Concrete Company, Broken Arrow, Oklahoma, OPDES Permit No. OK0045781

Dear Ms. Chard-McClary:

Enclosed is a copy of Arrow Concrete Company's 2012 First Semi-Annual [(the second sampling event since the new Oklahoma Pollutant Discharge Elimination System (OPDES) Permit was accepted)] required Ground Water Monitoring Report. The sampling event was conducted on June 29, 2012.

If you have any questions or need additional information, please call me at (918) 665-6575.

Respectfully,

Ty Ertugrul
Project Manager / Environmental Specialist

Enclosures
Cc: Mr. Michael Jordan, ODEQ
Mr. Mike Boley, Arrow Concrete Company

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

July 10, 2012

Turgay Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 409-7988
FAX (918) 656-6576

RE: Arrow Concrete 2067 Order No.: 1206470

Dear Turgay Ertugrul:

Green Country Testing, Inc. received 3 sample(s) on 6/29/2012 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

Original

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6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1206470**

Date Reported: **7/10/2012**

CLIENT: A & M Engineering **Lab Order:** 1206470

Project: Arrow Concrete 2067

Lab ID: 1206470-002 **Collection Date:** 6/29/2012 11:35:00 AM

Client Sample ID: MW-1 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	7/3/2012 5:11:07 PM
PERMIT METALS				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	< 0.00500	0.00500		mg/L	1	7/9/2012 5:18:58 PM
Cadmium	< 0.00100	0.00100		mg/L	1	7/9/2012 5:18:58 PM
Chromium	< 0.0100	0.0100		mg/L	1	7/9/2012 5:18:58 PM
Copper	< 0.0100	0.0100		mg/L	1	7/9/2012 5:18:58 PM
Lead	< 0.00500	0.00500		mg/L	1	7/9/2012 5:18:58 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	7/9/2012 5:18:58 PM
Nickel	< 0.0100	0.0100		mg/L	1	7/9/2012 5:18:58 PM
Selenium	< 0.00500	0.00500		mg/L	1	7/9/2012 5:18:58 PM
Silver	< 0.00200	0.00200		mg/L	1	7/9/2012 5:18:58 PM
Zinc	0.0494	0.0100		mg/L	1	7/9/2012 5:18:58 PM
DIESEL RANGE ORGANICS IN WATER				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	7/4/2012 10:29:00 AM
TPH (Oil)	< 1.00	1.00		mg/L	1	7/4/2012 10:29:00 AM
Surr: p-Terphenyl	103	30-154		%REC	1	7/4/2012 10:29:00 AM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	7/3/2012 8:17:00 AM
Surr: 4-Bromofluorobenzene	77.5	32-161		%REC	1	7/3/2012 8:17:00 AM
Surr: Trifluorotoluene	77.4	32-151		%REC	1	7/3/2012 8:17:00 AM
ALKALINITY IN WATER				**A2320B**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	472	2.50		mg/L	1	7/2/2012 11:00:00 AM
PH				**A4500-H+B**		Analyst: **PAB**
pH	6.70	0.100		pH Units	1	6/29/2012 4:10:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits.	RL	Reporting Detection Limit

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
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Analytical Report

(continuous)

WO#: **1206470**

Date Reported: **7/10/2012**

CLIENT: A & M Engineering

Lab Order: 1206470

Project: Arrow Concrete 2067

TOTAL SUSPENDED SOLIDS

A2540D

Analyst: **PAB**

Suspended Solids (Residue, Non-Filterable)	73.0	5.00	mg/L	1	7/4/2012 4:00:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
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Green Country TESTING

Analytical Report

(continuous)

WO#: **1206470**

Date Reported: **7/10/2012**

CLIENT: A & M Engineering **Lab Order:** 1206470

Project: Arrow Concrete 2067

Lab ID: 1206470-001 **Collection Date:** 6/29/2012 11:15:00 AM

Client Sample ID: MW-2 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	7/3/2012 5:11:07 PM
PERMIT METALS				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	< 0.00500	0.00500		mg/L	1	7/9/2012 5:12:24 PM
Cadmium	< 0.00100	0.00100		mg/L	1	7/9/2012 5:12:24 PM
Chromium	< 0.0100	0.0100		mg/L	1	7/9/2012 5:12:24 PM
Copper	< 0.0100	0.0100		mg/L	1	7/9/2012 5:12:24 PM
Lead	< 0.00500	0.00500		mg/L	1	7/9/2012 5:12:24 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	7/9/2012 5:12:24 PM
Nickel	< 0.0100	0.0100		mg/L	1	7/9/2012 5:12:24 PM
Selenium	< 0.00500	0.00500		mg/L	1	7/9/2012 5:12:24 PM
Silver	< 0.00200	0.00200		mg/L	1	7/9/2012 5:12:24 PM
Zinc	< 0.0100	0.0100		mg/L	1	7/9/2012 5:12:24 PM
DIESEL RANGE ORGANICS IN WATER				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	7/3/2012
TPH (Oil)	< 1.00	1.00		mg/L	1	7/3/2012
Surr: p-Terphenyl	102	30-154		%REC	1	7/3/2012
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	7/3/2012 8:17:00 AM
Surr: 4-Bromofluorobenzene	73.3	32-161		%REC	1	7/3/2012 8:17:00 AM
Surr: Trifluorotoluene	74.5	32-151		%REC	1	7/3/2012 8:17:00 AM
ALKALINITY IN WATER				**A2320B**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	436	2.50		mg/L	1	7/2/2012 11:00:00 AM
PH				**A4500-H+B**		Analyst: **PAB**
pH	6.76	0.100		pH Units	1	6/29/2012 4:10:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1206470**

Date Reported: **7/10/2012**

CLIENT: A & M Engineering

Lab Order: 1206470

Project: Arrow Concrete 2067

TOTAL SUSPENDED SOLIDS

A2540D

Analyst: **PAB**

Suspended Solids (Residue, Non-Filterable)	378	10.0	mg/L	1	7/4/2012 4:00:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
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Analytical Report

(continuous)

WO#: **1206470**

Date Reported: **7/10/2012**

CLIENT: A & M Engineering **Lab Order:** 1206470

Project: Arrow Concrete 2067

Lab ID: 1206470-003 **Collection Date:** 6/29/2012 11:50:00 AM

Client Sample ID: MW-3 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	7/3/2012 5:11:07 PM
PERMIT METALS				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	< 0.00500	0.00500		mg/L	1	7/9/2012 5:25:31 PM
Cadmium	< 0.00100	0.00100		mg/L	1	7/9/2012 5:25:31 PM
Chromium	< 0.0100	0.0100		mg/L	1	7/9/2012 5:25:31 PM
Copper	< 0.0100	0.0100		mg/L	1	7/9/2012 5:25:31 PM
Lead	< 0.00500	0.00500		mg/L	1	7/9/2012 5:25:31 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	7/9/2012 5:25:31 PM
Nickel	< 0.0100	0.0100		mg/L	1	7/9/2012 5:25:31 PM
Selenium	< 0.00500	0.00500		mg/L	1	7/9/2012 5:25:31 PM
Silver	< 0.00200	0.00200		mg/L	1	7/9/2012 5:25:31 PM
Zinc	< 0.0100	0.0100		mg/L	1	7/9/2012 5:25:31 PM
DIESEL RANGE ORGANICS IN WATER				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	7/4/2012 10:29:00 AM
TPH (Oil)	< 1.00	1.00		mg/L	1	7/4/2012 10:29:00 AM
Surr: p-Terphenyl	63.4	30-154		%REC	1	7/4/2012 10:29:00 AM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	7/3/2012 3:52:00 PM
Surr: 4-Bromofluorobenzene	79.5	32-161		%REC	1	7/3/2012 3:52:00 PM
Surr: Trifluorotoluene	78.8	32-151		%REC	1	7/3/2012 3:52:00 PM
ALKALINITY IN WATER				**A2320B**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	836	5.00		mg/L	1	7/2/2012 11:00:00 AM
PH				**A4500-H+B**		Analyst: **PAB**
pH	6.44	0.100		pH Units	1	6/29/2012 4:10:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
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Green Country TESTING

Analytical Report

(continuous)

WO#: **1206470**

Date Reported: **7/10/2012**

CLIENT: A & M Engineering

Project: Arrow Concrete 2067

Lab Order: 1206470

TOTAL SUSPENDED SOLIDS

A2540D

Analyst: **PAB**

Suspended Solids (Residue, Non-Filterable)	128	5.00	mg/L	1	7/4/2012 4:00:00 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
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Green Country TESTING

QC SUMMARY REPORT

WO#: **1206470**
10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **A2320B**

Sample ID **MB-R2948**	SampType: **MBLK**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **2948**
Client ID: **PBW**	Batch ID: **R2948**	TestNo: **A2320B**		Analysis Date: **7/2/2012**	SeqNo: **42238**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	< 2.50	2.50									

Sample ID **LCS-R2948**	SampType: **LCS**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **2948**
Client ID: **LCSW**	Batch ID: **R2948**	TestNo: **A2320B**		Analysis Date: **7/2/2012**	SeqNo: **42239**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	102	2.50	100.0	0	102	80	120				

Sample ID **1206457-006ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **2948**
Client ID: **BatchQC**	Batch ID: **R2948**	TestNo: **A2320B**		Analysis Date: **7/2/2012**	SeqNo: **42246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	88.0	2.50						90.00	2.25	5.91	H

Sample ID **1206460-003ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **2948**
Client ID: **BatchQC**	Batch ID: **R2948**	TestNo: **A2320B**		Analysis Date: **7/2/2012**	SeqNo: **42252**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	60.0	2.50						62.00	3.28	5.91	H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1206470**
10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **A2540D**

Sample ID **MB-R3022**	SampType: **MBLK**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **3022**
Client ID: **PBW**	Batch ID: **R3022**	TestNo: **A2540D**		Analysis Date: **7/4/2012**	SeqNo: **43315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	< 5.00	5.00									

Sample ID **LCS-R3022**	SampType: **LCS**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **3022**
Client ID: **LCSW**	Batch ID: **R3022**	TestNo: **A2540D**		Analysis Date: **7/4/2012**	SeqNo: **43316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	39.0	5.00	40.00	0	97.5	80	120				

Sample ID **1206462-004ADUP**	SampType: **DUP**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **3022**
Client ID: **BatchQC**	Batch ID: **R3022**	TestNo: **A2540D**		Analysis Date: **7/4/2012**	SeqNo: **43322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	37.0	5.00						38.00	2.67	5	

Sample ID **1206470-003ADUP**	SampType: **DUP**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **3022**
Client ID: **MW-3**	Batch ID: **R3022**	TestNo: **A2540D**		Analysis Date: **7/4/2012**	SeqNo: **43334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	131	5.00						128.0	2.32	5	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067

TestNo: **A4500-H+B**

Sample ID	LCS-R2923	SampType:	LCS	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	2923	
Client ID:	LCSW	Batch ID:	R2923	TestNo:	A4500-H+B			Analysis Date:	6/29/2012	SeqNo:	42001	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH	6.02	0.100	6.000	0	100	80	120					

Sample ID	1206470-003ADUP	SampType:	DUP	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	2923	
Client ID:	MW-3	Batch ID:	R2923	TestNo:	A4500-H+B			Analysis Date:	6/29/2012	SeqNo:	42005	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH	6.46	0.100						6.440	0.310	1.4		

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
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QC SUMMARY REPORT

WO#: **1206470**
10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **E200.7**

Sample ID **MB-1022**	SampType: **MBLK**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **7/5/2012**	RunNo: **3026**
Client ID: **PBW**	Batch ID: **R3026**	TestNo: **E200.7**		Analysis Date: **7/9/2012**	SeqNo: **43401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Copper	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Molybdenum	< 0.0100	0.0100									
Nickel	< 0.0100	0.0100									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									
Zinc	< 0.0100	0.0100									

Sample ID **LCS-1022**	SampType: **LCS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **7/5/2012**	RunNo: **3026**
Client ID: **LCSW**	BatchID: **R3026**	TestNo: **E200.7**		Analysis Date: **7/9/2012**	SeqNo: **43402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.02	0.00500	2.000	0	101	85	115				
Cadmium	1.99	0.00100	2.000	0	99.5	85	115				
Chromium	2.01	0.0100	2.000	0	101	85	115				
Copper	2.03	0.0100	2.000	0	101	85	115				
Lead	1.99	0.00500	2.000	0	99.5	85	115				
Molybdenum	2.01	0.0100	2.000	0	101	85	115				
Nickel	2.00	0.0100	2.000	0	99.8	85	115				
Selenium	1.99	0.00500	2.000	0	99.7	85	115				
Silver	0.201	0.00200	0.2000	0	101	85	115				
Zinc	1.97	0.0100	2.000	0	98.6	85	115				

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067

TestNo: **E200.7**

Sample ID **1207008-003AMS**	SampType: **MS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **7/5/2012**	RunNo: **3026**
Client ID: **BatchQC**	Batch ID: **R3026**	TestNo: **E200.7**		Analysis Date: **7/9/2012**	SeqNo: **43404**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.06	0.00500	2.000	0	103	87.2	113				
Cadmium	2.03	0.00100	2.000	0	101	90	112				
Chromium	2.02	0.0100	2.000	0	101	90.1	111				
Copper	2.08	0.0100	2.000	0	104	90.3	111				
Lead	1.99	0.00500	2.000	0	99.7	88.8	109				
Molybdenum	2.07	0.0100	2.000	0	104	91.4	113				
Nickel	2.00	0.0100	2.000	0	100	90	109				
Selenium	1.92	0.00500	2.000	0	95.9	77.7	118				
Silver	0.203	0.00200	0.2000	0	101	89.9	108				
Zinc	2.08	0.0100	2.000	0.02760	102	88.9	112				

Sample ID **1207008-003AMSD**	SampType: **MSD**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **7/5/2012**	RunNo: **3026**
Client ID: **BatchQC**	Batch ID: **R3026**	TestNo: **E200.7**		Analysis Date: **7/9/2012**	SeqNo: **43405**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.06	0.00500	2.000	0	103	87.2	113	2.061	0.141	3.3	
Cadmium	2.03	0.00100	2.000	0	102	90	112	2.028	0.222	3.01	
Chromium	2.03	0.0100	2.000	0	101	90.1	111	2.024	0.183	3.12	
Copper	2.08	0.0100	2.000	0	104	90.3	111	2.080	0.0962	3.15	
Lead	2.00	0.00500	2.000	0	99.9	88.8	109	1.993	0.215	3.18	
Molybdenum	2.08	0.0100	2.000	0	104	91.4	113	2.074	0.390	3.08	
Nickel	2.01	0.0100	2.000	0	101	90	109	2.003	0.433	2.99	
Selenium	1.92	0.00500	2.000	0	95.8	77.7	118	1.918	0.0887	4.4	
Silver	0.204	0.00200	0.2000	0	102	89.9	108	0.2026	0.541	2.64	
Zinc	2.08	0.0100	2.000	0.02760	102	88.9	112	2.076	0.0867	3.19	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067

TestNo: **E245.2**

Sample ID	**MB-R2968**	SampType: **MBLK**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **2968**
Client ID:	**PBW**	Batch ID: **R2968**	TestNo: **E245.2**		Analysis Date: **7/3/2012**	SeqNo: **42816**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00010	0.00010									

Sample ID	**LCS-R2968**	SampType: **LCS**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **2968**
Client ID:	**LCSW**	Batch ID: **R2968**	TestNo: **E245.2**		Analysis Date: **7/3/2012**	SeqNo: **42817**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000992	0.000100	0.001000	0	99.2	85	115				

Sample ID	**1206464-001CMS**	SampType: **MS**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **2968**
Client ID:	**BatchQC**	Batch ID: **R2968**	TestNo: **E245.2**		Analysis Date: **7/3/2012**	SeqNo: **42819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000942	0.000100	0.001000	0.0005686	37.4	52.3	133				S

Sample ID	**1206464-001CMSD**	SampType: **MSD**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **2968**
Client ID:	**BatchQC**	Batch ID: **R2968**	TestNo: **E245.2**		Analysis Date: **7/3/2012**	SeqNo: **42820**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000946	0.000100	0.001000	0.0005686	37.7	52.3	133	0.0009421	0.360	7.1	S

Sample ID	**1207008-003AMS**	SampType: **MS**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **2968**
Client ID:	**BatchQC**	Batch ID: **R2968**	TestNo: **E245.2**		Analysis Date: **7/3/2012**	SeqNo: **42827**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000879	0.000100	0.001000	0	87.9	52.3	133				

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1206470**
10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **E245.2**

Sample ID	**1207008-003AMSD**	SampType: **MSD**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **2968**
Client ID:	**BatchQC**	Batch ID: **R2968**	TestNo: **E245.2**		Analysis Date: **7/3/2012**	SeqNo: **42828**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000869	0.000100	0.001000	0	86.9	52.3	133	0.0008792	1.12	7.1	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067

TestNo: **OKDRO**

Sample ID **MB-R3014**	SampType: **MBLK**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:			RunNo: **3014**			
Client ID: **PBW**	Batch ID: **R3014**	TestNo: **OKDRO**		Analysis Date: **7/3/2012**			SeqNo: **43240**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	< 1.00	1.00									
TPH (Oil)	< 1.00	1.00									
Surr: p-Terphenyl	123		100.0		123	30	154				

Sample ID **LCS-R3014**	SampType: **LCS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:			RunNo: **3014**			
Client ID: **LCSW**	Batch ID: **R3014**	TestNo: **OKDRO**		Analysis Date: **7/3/2012**			SeqNo: **43241**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	93.0	1.00	100.0	0	93.0	80	120				
TPH (Oil)	< 1.00	1.00	100.0	0	0	80	120				S
Surr: p-Terphenyl	72.2		100.0		72.2	30	154				

Sample ID **1206470-001CMS**	SampType: **MS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **7/3/2012**			RunNo: **3014**			
Client ID: **MW-2**	Batch ID: **R3014**	TestNo: **OKDRO**		Analysis Date: **7/3/2012**			SeqNo: **43243**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	114	1.00	100.0	0	114	53	146				
TPH (Oil)	< 1.00	1.00	100.0	0	0	22	162				S
Surr: p-Terphenyl	74.5		100.0		74.5	30	154				

Sample ID **1206470-001CMSD**	SampType: **MSD**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **7/3/2012**			RunNo: **3014**			
Client ID: **MW-2**	Batch ID: **R3014**	TestNo: **OKDRO**		Analysis Date: **7/3/2012**			SeqNo: **43244**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	102	1.00	100.0	0	102	53	146	114.0	11.1	20	

Quatifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **OKDRO**

Sample ID **1206470-001CMSD**	SampType: **MSD**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **3014**
Client ID: **MW-2**	Batch ID: **R3014**	TestNo: **OKDRO**		Analysis Date: **7/3/2012**	SeqNo: **43244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil)	< 1.00	1.00	100.0	0	0	22	162	0	0	15.9	S
Surr: p-Terphenyl	66.4		100.0		66.4	30	154		0	0	

Sample ID **MB-R3015**	SampType: **MBLK**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3015**
Client ID: **PBW**	Batch ID: **R3015**	TestNo: **OKDRO**		Analysis Date: **7/4/2012**	SeqNo: **43247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	< 1.00	1.00									
TPH (Oil)	< 1.00	1.00									
Surr: p-Terphenyl	138		100.0		138	30	154				

Sample ID **LCS-R3015**	SampType: **LCS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3015**
Client ID: **LCSW**	Batch ID: **R3015**	TestNo: **OKDRO**		Analysis Date: **7/4/2012**	SeqNo: **43248**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	95.3	1.00	100.0	0	95.3	80	120				
TPH (Oil)	< 1.00	1.00	100.0	0	0	80	120				S
Surr: p-Terphenyl	101		100.0		101	30	154				

Sample ID **1206470-002CMS**	SampType: **MS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **3015**
Client ID: **MW-1**	Batch ID: **R3015**	TestNo: **OKDRO**		Analysis Date: **7/4/2012**	SeqNo: **43250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	113	1.00	100.0	0	113	53	146				
TPH (Oil)	< 1.00	1.00	100.0	0	0	22	162				S

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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Green Country TESTING

QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **OKDRO**

Sample ID **1206470-002CMS**	SampType: **MS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **3015**
Client ID: **MW-1**	Batch ID: **R3015**	TestNo: **OKDRO**		Analysis Date: **7/4/2012**	SeqNo: **43250**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl	125		100.0		125	30	154				

Sample ID **1206470-002CMSD**	SampType: **MSD**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **7/3/2012**	RunNo: **3015**
Client ID: **MW-1**	Batch ID: **R3015**	TestNo: **OKDRO**		Analysis Date: **7/4/2012**	SeqNo: **43251**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	108	1.00	100.0	0	108	53	146	113.0	4.52	20	
TPH (Oil)	< 1.00	1.00	100.0	0	0	22	162	0	0	15.9	S
Surr: p-Terphenyl	123		100.0		123	30	154		0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
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QC SUMMARY REPORT

WO#: **1206470**

10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **OKGRO**

Sample ID **MB-R3004**	SampType: **MBLK**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:			RunNo: **3004**			
Client ID: **PBW**	Batch ID: **R3004**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**			SeqNo: **43177**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	103		100.0		103	32	161				
Surr: Trifluorotoluene	90.6		100.0		90.6	32	151				

Sample ID **LCS-R3004**	SampType: **LCS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:			RunNo: **3004**			
Client ID: **LCSW**	Batch ID: **R3004**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**			SeqNo: **43178**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	81.1	0.0500	100.0	0	81.1	80	120				
Surr: 4-Bromofluorobenzene	106		100.0		106	32	161				
Surr: Trifluorotoluene	104		100.0		104	32	151				

Sample ID **1206461-001AMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:			RunNo: **3004**			
Client ID: **BatchQC**	Batch ID: **R3004**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**			SeqNo: **43180**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	78.3	0.0500	100.0	0.2500	78.0	52	130				
Surr: 4-Bromofluorobenzene	94.7		100.0		94.7	32	161				
Surr: Trifluorotoluene	101		100.0		101	32	151				

Sample ID **1206461-001AMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:			RunNo: **3004**			
Client ID: **BatchQC**	Batch ID: **R3004**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**			SeqNo: **43181**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	78.2	0.0500	100.0	0.2500	78.0	52	130	78.30	0.128	13.2	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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Green Country TESTING

QC SUMMARY REPORT

WO#: **1206470**
10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067

TestNo: **OKGRO**

Sample ID **1206461-001AMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3004**
Client ID: **BatchQC**	Batch ID: **R3004**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**	SeqNo: **43181**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	94.4		100.0		94.4	32	161		0	0	
Surr: Trifluorotoluene	104		100.0		104	32	151		0	0	

Sample ID **MB-R3005**	SampType: **MBLK**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3005**
Client ID: **PBW**	Batch ID: **R3005**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**	SeqNo: **43184**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	116		100.0		116	32	161				
Surr: Trifluorotoluene	104		100.0		104	32	151				

Sample ID **LCS-R3005**	SampType: **LCS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3005**
Client ID: **LCSW**	Batch ID: **R3005**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**	SeqNo: **43185**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	81.3	0.0500	100.0	0	81.3	80	120				
Surr: 4-Bromofluorobenzene	90.3		100.0		90.3	32	161				
Surr: Trifluorotoluene	107		100.0		107	32	151				

Sample ID **1206470-003CMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3005**
Client ID: **MW-3**	Batch ID: **R3005**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**	SeqNo: **43187**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	87.2	0.0500	100.0	0	87.2	52	130				
Surr: 4-Bromofluorobenzene	101		100.0		101	32	161				

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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Green Country TESTING

QC SUMMARY REPORT

WO#: **1206470**
10-Jul-12

Client: A & M Engineering
Project: Arrow Concrete 2067 **TestNo:** **OKGRO**

Sample ID **1206470-003CMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3005**
Client ID: **MW-3**	Batch ID: **R3005**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**	SeqNo: **43187**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Trifluorotoluene	109		100.0		109	32	151				

Sample ID **1206470-003CMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **3005**
Client ID: **MW-3**	Batch ID: **R3005**	TestNo: **OKGRO**		Analysis Date: **7/3/2012**	SeqNo: **43188**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	79.4	0.0500	100.0	0	79.4	52	130	87.20	9.36	13.2	
Surr: 4-Bromofluorobenzene	96.1		100.0		96.1	32	161		0	0	
Surr: Trifluorotoluene	103		100.0		103	32	151		0	0	

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

1206470

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING — ENVIRONMENTAL — CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4813
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM: A & M Engineering

CLIENT CONTACT: ~~Infant Tower~~ TY Entrigonal

PHONE NUMBER: 918-665-6575

PROJECT NUMBER: 2067-

PROJECT NAME: Arrow Concrete

SAMPLERS: (Signature) Jon Kuhn

ANALYTICAL TESTS REQUIRED

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH ? YES	RUSH ? NO	Total Metals	ALKalinity	pH	TPH Diesel	TPA Gasoline	TSS						REMARKS
	6/29/12	11:15			MW-2	Log	5		X	X	X	X	X	X	X						
	6/29/12	11:35			MW-1	Log	5		X	X	X	X	X	X	X						
	6/29/12	11:50			MW-3	Log	5		X	X	X	X	X	X	X						

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Jon Kuhn	6/29/12	12:28	Star Green

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Mice @ 18.5°C

ARROW CONCRETE COMPANY
GROUNDWATER REPORT
SEMI-ANNUAL REPORT

FACILITY ID I-72002620
PERMIT No. OK0045781

NOVEMBER 2012

A & M PROJECT No. 2067-006

Prepared for:
Arrow Concrete Company
Broken Arrow, Oklahoma

Prepared by:

A & M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, Oklahoma 74128-4813
Phone (918) 665-6575 and Fax (918) 665-6576
E-mail: aandmengineering.com

Nov. 15, 2012

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: Groundwater Monitoring Semi-Annual Report prepared for Arrow Concrete, Broken Arrow, Oklahoma.

Dear, Ms. Chard-McClary

Enclosed is one copy of the Second Semi Annual Monitoring Report for Arrow Concrete of Broken Arrow, Oklahoma, conducted in the second half of the year 2012. The report is a requirement as part of the Facilities Stormwater Discharge Permit.

If you have any questions, please call me at (918) 665-6575.

Sincerely,

Ty Ertugrul
Project Manager

Cc: Mike Boley

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

November 13, 2012

Turgay Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 409-7988
FAX (918) 656-6576

RE: Arrow Concrete Semi-Annual Order No.: 1211038

Dear Turgay Ertugrul:

Green Country Testing, Inc. received 3 sample(s) on 11/2/2012 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

Original

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Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
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Green Country TESTING

Analytical Report

(continuous)

WO#: **1211038**

Date Reported: **11/13/2012**

CLIENT: A & M Engineering **Lab Order:** 1211038

Project: Arrow Concrete Semi-Annual

Lab ID: 1211038-001 **Collection Date:** 11/2/2012 12:45:00 PM

Client Sample ID: MW-1 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.000100	0.000100		mg/L	1	11/5/2012 5:44:09 PM
PERMIT METALS				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	0.0125	0.00500		mg/L	1	11/9/2012 9:40:30 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/9/2012 9:40:30 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/9/2012 9:40:30 PM
Copper	0.0132	0.0100		mg/L	1	11/9/2012 9:40:30 PM
Lead	< 0.00500	0.00500		mg/L	1	11/9/2012 9:40:30 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	11/9/2012 9:40:30 PM
Nickel	< 0.0100	0.0100		mg/L	1	11/9/2012 9:40:30 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/9/2012 9:40:30 PM
Silver	< 0.00200	0.00200		mg/L	1	11/9/2012 9:40:30 PM
Zinc	< 0.0100	0.0100		mg/L	1	11/9/2012 9:40:30 PM
DIESEL RANGE ORGANICS IN WATER				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/5/2012 3:47:00 PM
TPH (Oil)	< 1.00	1.00		mg/L	1	11/5/2012 3:47:00 PM
Surr: p-Terphenyl	101	5.22-179		%REC	1	11/5/2012 3:47:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/12/2012 7:45:00 AM
Surr: 4-Bromofluorobenzene	46.3	15.1-177		%REC	1	11/12/2012 7:45:00 AM
Surr: Trifluorotoluene	150	32.1-144	S	%REC	1	11/12/2012 7:45:00 AM
ALKALINITY IN WATER				**A2320B**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	472	2.50		mg/L	1	11/9/2012 9:00:00 AM
PH				**A4500-H+B**		Analyst: **PAB**
pH	6.97	0.100		pH Units	1	11/2/2012 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

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Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1211038**

Date Reported: **11/13/2012**

CLIENT: A & M Engineering **Lab Order:** 1211038

Project: Arrow Concrete Semi-Annual

TOTAL SUSPENDED SOLIDS

A2540D Analyst: **PAB**

Suspended Solids (Residue, Non-Filterable)	34.0	5.00	mg/L	1	11/7/2012 7:15:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
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Analytical Report

(continuous)

WO#: **1211038**

Date Reported: **11/13/2012**

CLIENT: A & M Engineering **Lab Order:** 1211038

Project: Arrow Concrete Semi-Annual

Lab ID: 1211038-002 **Collection Date:** 11/2/2012 12:05:00 PM

Client Sample ID: MW-2 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.000100	0.000100		mg/L	1	11/5/2012 5:44:09 PM
PERMIT METALS				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	0.0139	0.00500		mg/L	1	11/9/2012 9:47:23 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/9/2012 9:47:23 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/9/2012 9:47:23 PM
Copper	0.0167	0.0100		mg/L	1	11/9/2012 9:47:23 PM
Lead	< 0.00500	0.00500		mg/L	1	11/9/2012 9:47:23 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	11/9/2012 9:47:23 PM
Nickel	< 0.0100	0.0100		mg/L	1	11/9/2012 9:47:23 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/9/2012 9:47:23 PM
Silver	< 0.00200	0.00200		mg/L	1	11/9/2012 9:47:23 PM
Zinc	< 0.0100	0.0100		mg/L	1	11/9/2012 9:47:23 PM
DIESEL RANGE ORGANICS IN WATER				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/5/2012 3:47:00 PM
TPH (Oil)	< 1.00	1.00		mg/L	1	11/5/2012 3:47:00 PM
Surr: p-Terphenyl	105	5.22-179		%REC	1	11/5/2012 3:47:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	0.110	0.0500		mg/L	1	11/12/2012 7:45:00 AM
Surr: 4-Bromofluorobenzene	19.0	15.1-177		%REC	1	11/12/2012 7:45:00 AM
Surr: Trifluorotoluene	183	32.1-144	S	%REC	1	11/12/2012 7:45:00 AM
ALKALINITY IN WATER				**A2320B**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	704	2.50		mg/L	1	11/9/2012 9:00:00 AM
PH				**A4500-H+B**		Analyst: **PAB**
pH	7.01	0.100		pH Units	1	11/2/2012 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Green Country Testing

Analytical Report

(continuous)

WO#: 1211038

Date Reported: 11/13/2012

CLIENT: A & M Engineering **Lab Order:** 1211038

Project: Arrow Concrete Semi-Annual

TOTAL SUSPENDED SOLIDS **A2540D** Analyst: PAB

Suspended Solids (Residue, Non-Filterable)	605	12.0	mg/L	1	11/7/2012 7:15:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation/exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Tulsa, OK 74145
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Analytical Report

(continuous)

WO#: **1211038**

Date Reported: **11/13/2012**

CLIENT: A & M Engineering **Lab Order:** 1211038

Project: Arrow Concrete Semi-Annual

Lab ID: 1211038-003 **Collection Date:** 11/2/2012 12:27:00 PM

Client Sample ID: MW-3 **Matrix:** AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.000100	0.000100		mg/L	1	11/5/2012 5:44:09 PM
PERMIT METALS				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	0.0260	0.00500		mg/L	1	11/9/2012 9:54:16 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/9/2012 9:54:16 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/9/2012 9:54:16 PM
Copper	0.0141	0.0100		mg/L	1	11/9/2012 9:54:16 PM
Lead	< 0.00500	0.00500		mg/L	1	11/9/2012 9:54:16 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	11/9/2012 9:54:16 PM
Nickel	< 0.0100	0.0100		mg/L	1	11/9/2012 9:54:16 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/9/2012 9:54:16 PM
Silver	< 0.00200	0.00200		mg/L	1	11/9/2012 9:54:16 PM
Zinc	< 0.0100	0.0100		mg/L	1	11/9/2012 9:54:16 PM
DIESEL RANGE ORGANICS IN WATER				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/5/2012 3:47:00 PM
TPH (Oil)	< 1.00	1.00		mg/L	1	11/5/2012 3:47:00 PM
Surr: p-Terphenyl	0.331	5.22-179	S	%REC	1	11/5/2012 3:47:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/12/2012 7:45:00 AM
Surr: 4-Bromofluorobenzene	25.9	15.1-177		%REC	1	11/12/2012 7:45:00 AM
Surr: Trifluorotoluene	159	32.1-144	S	%REC	1	11/12/2012 7:45:00 AM
ALKALINITY IN WATER				**A2320B**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	456	2.50		mg/L	1	11/9/2012 9:00:00 AM
PH				**A4500-H+B**		Analyst: **PAB**
pH	6.79	0.100		pH Units	1	11/2/2012 5:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Tulsa, OK 74145
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Analytical Report

(continuous)

WO#: **1211038**

Date Reported: **11/13/2012**

CLIENT: A & M Engineering **Lab Order:** 1211038

Project: Arrow Concrete Semi-Annual

TOTAL SUSPENDED SOLIDS

A2540D Analyst: **PAB**

Suspended Solids (Residue, Non-Filterable)	110	5.00	mg/L	1	11/7/2012 7:15:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
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QC SUMMARY REPORT

WO#: **1211038**

13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** **A2320B**

Sample ID **MB-R4669**	SampType: **MBLK**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **4669**
Client ID: **PBW**	Batch ID: **R4669**	TestNo: **A2320B**		Analysis Date: **11/9/2012**	SeqNo: **63807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	< 2.50	2.50									

Sample ID **LCS-R4669**	SampType: **LCS**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **4669**
Client ID: **LCSW**	Batch ID: **R4669**	TestNo: **A2320B**		Analysis Date: **11/9/2012**	SeqNo: **63808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	98.0	2.50	100.0	0	98.0	80	120				

Sample ID **1211062-001ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **4669**
Client ID: **BatchQC**	Batch ID: **R4669**	TestNo: **A2320B**		Analysis Date: **11/9/2012**	SeqNo: **63813**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	84.0	2.50						86.00	2.35	4.96	

Sample ID **1211100-001ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **4669**
Client ID: **BatchQC**	Batch ID: **R4669**	TestNo: **A2320B**		Analysis Date: **11/9/2012**	SeqNo: **63822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	142	2.50						140.0	1.42	4.96	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1211038**

13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** **A2540D**

Sample ID **MB-R4652**	SampType: **MBLK**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **4652**
Client ID: **PBW**	Batch ID: **R4652**	TestNo: **A2540D**		Analysis Date: **11/7/2012**	SeqNo: **63666**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	< 5.00	5.00									

Sample ID **LCS-R4652**	SampType: **LCS**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **4652**
Client ID: **LCSW**	Batch ID: **R4652**	TestNo: **A2540D**		Analysis Date: **11/7/2012**	SeqNo: **63667**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	41.0	5.00	40.00	0	103	80	120				

Sample ID **1211038-003ADUP**	SampType: **DUP**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **4652**
Client ID: **MW-3**	Batch ID: **R4652**	TestNo: **A2540D**		Analysis Date: **11/7/2012**	SeqNo: **63675**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	112	5.00						110.0	1.80	5	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1211038**
13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** **A4500-H+B**

Sample ID	LCS-R4611	SampType:	LCS	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	4611
Client ID:	LCSW	Batch ID:	R4611	TestNo:	A4500-H+B			Analysis Date:	11/2/2012	SeqNo:	63332

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.99	0.100	9.000	0	99.9	80	120				

Sample ID	1211038-003ADUP	SampType:	DUP	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	4611
Client ID:	MW-3	Batch ID:	R4611	TestNo:	A4500-H+B			Analysis Date:	11/2/2012	SeqNo:	63337

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.77	0.100						6.790	0.295	1.4	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: 1211038
13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** E200.7

Sample ID MBLK	SampType: MBLK	TestCode: MET_WW_T	Units: mg/L	Prep Date: 11/7/2012	RunNo: 4681
Client ID: PBW	Batch ID: R4681	TestNo: E200.7		Analysis Date: 11/9/2012	SeqNo: 63957

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Copper	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Molybdenum	< 0.0100	0.0100									
Nickel	< 0.0100	0.0100									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									
Zinc	< 0.0100	0.0100									

Sample ID LCS	SampType: LCS	TestCode: MET_WW_T	Units: mg/L	Prep Date: 11/7/2012	RunNo: 4681
Client ID: LCSW	Batch ID: R4681	TestNo: E200.7		Analysis Date: 11/9/2012	SeqNo: 63958

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.95	0.00500	2.000	0	97.6	85	115				
Cadmium	1.96	0.00100	2.000	0	97.8	85	115				
Chromium	1.97	0.0100	2.000	0	98.5	85	115				
Copper	1.96	0.0100	2.000	0	97.8	85	115				
Lead	1.94	0.00500	2.000	0	97.1	85	115				
Molybdenum	1.96	0.0100	2.000	0	98.1	85	115				
Nickel	1.95	0.0100	2.000	0	97.7	85	115				
Selenium	1.85	0.00500	2.000	0	92.4	85	115				
Silver	0.190	0.00200	0.2000	0	95.2	85	115				
Zinc	1.92	0.0100	2.000	0	96.2	85	115				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1211038**

13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** **E200.7**

Sample ID	1211030-002CMS	SampType:	MS	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/7/2012	RunNo:	4681
Client ID:	BatchQC	Batch ID:	R4681	TestNo:	E200.7			Analysis Date:	11/9/2012	SeqNo:	63960

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.06	0.00500	2.000	0	103	90.4	109				
Cadmium	1.99	0.00100	2.000	0	99.7	90.5	108				
Chromium	1.99	0.0100	2.000	0	99.6	91.9	109				
Copper	2.03	0.0100	2.000	0.01680	101	92.4	111				
Lead	1.97	0.00500	2.000	0	98.3	89.5	106				
Molybdenum	2.04	0.0100	2.000	0.01710	101	94.2	110				
Nickel	1.97	0.0100	2.000	0	98.7	90.1	108				
Selenium	1.92	0.00500	2.000	0	96.0	79.2	106				
Silver	0.196	0.00200	0.2000	0	98.2	89.8	108				
Zinc	2.02	0.0100	2.000	0.02130	99.7	89.1	110				

Sample ID	1211030-002CMSD	SampType:	MSD	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/7/2012	RunNo:	4681
Client ID:	BatchQC	Batch ID:	R4681	TestNo:	E200.7			Analysis Date:	11/9/2012	SeqNo:	63961

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.08	0.00500	2.000	0	104	90.4	109	2.065	0.729	4.31	
Cadmium	2.01	0.00100	2.000	0	100	90.5	108	1.993	0.595	3.92	
Chromium	2.00	0.0100	2.000	0	100	91.9	109	1.992	0.436	4.25	
Copper	2.04	0.0100	2.000	0.01680	101	92.4	111	2.029	0.580	4.51	
Lead	1.98	0.00500	2.000	0	98.8	89.5	106	1.967	0.507	4	
Molybdenum	2.05	0.0100	2.000	0.01710	102	94.2	110	2.040	0.416	4.24	
Nickel	1.99	0.0100	2.000	0	99.3	90.1	108	1.974	0.601	4.06	
Selenium	1.93	0.00500	2.000	0	96.7	79.2	106	1.921	0.659	5.03	
Silver	0.197	0.00200	0.2000	0	98.6	89.8	108	0.1965	0.305	10.1	
Zinc	2.03	0.0100	2.000	0.02130	100	89.1	110	2.015	0.579	4.82	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: 1211038

13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: E245.2

Sample ID: MB-R4605	SampType: MBLK	TestCode: HG_WW	Units: mg/L	Prep Date: 11/5/2012	RunNo: 4605
Client ID: PBW	Batch ID: R4605	TestNo: E245.2		Analysis Date: 11/5/2012	SeqNo: 63246

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.000100	0.000100									

Sample ID: LCS-R4605	SampType: LCS	TestCode: HG_WW	Units: mg/L	Prep Date: 11/5/2012	RunNo: 4605
Client ID: LCSW	Batch ID: R4605	TestNo: E245.2		Analysis Date: 11/5/2012	SeqNo: 63247

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000974	0.000100	0.001000	0	97.4	85	115				

Sample ID: 1211030-002CMS	SampType: MS	TestCode: HG_WW	Units: mg/L	Prep Date: 11/5/2012	RunNo: 4605
Client ID: BatchQC	Batch ID: R4605	TestNo: E245.2		Analysis Date: 11/5/2012	SeqNo: 63249

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000931	0.000100	0.001000	0	93.1	55.5	137				

Sample ID: 1211030-002CMSD	SampType: MSD	TestCode: HG_WW	Units: mg/L	Prep Date: 11/5/2012	RunNo: 4605
Client ID: BatchQC	Batch ID: R4605	TestNo: E245.2		Analysis Date: 11/5/2012	SeqNo: 63250

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000930	0.000100	0.001000	0	93.0	55.5	137	0.0009310	0.0752	8.52	

Sample ID: 1211037-001CMS	SampType: MS	TestCode: HG_WW	Units: mg/L	Prep Date: 11/5/2012	RunNo: 4605
Client ID: BatchQC	Batch ID: R4605	TestNo: E245.2		Analysis Date: 11/5/2012	SeqNo: 63258

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000862	0.000100	0.001000	0	86.2	55.5	137				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1211038**

13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** **OKGRO**

Sample ID **MB-R4702**	SampType: **MBLK**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **4702**
Client ID: **PBW**	Batch ID: **R4702**	TestNo: **OKGRO**		Analysis Date: **11/12/2012**	SeqNo: **64496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	13.6		100.0		13.6	15.1	177				S
Surr: Trifluorotoluene	36.1		100.0		36.1	32.1	144				

Sample ID **LCS-R4702**	SampType: **LCS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **4702**
Client ID: **LCSW**	Batch ID: **R4702**	TestNo: **OKGRO**		Analysis Date: **11/12/2012**	SeqNo: **64496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	83.2	0.0500	100.0	0	83.2	80	120				
Surr: 4-Bromofluorobenzene	83.9		100.0		83.9	15.1	177				
Surr: Trifluorotoluene	79.8		100.0		79.8	32.1	144				

Sample ID **1211038-001CMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **4702**
Client ID: **MW-1**	Batch ID: **R4702**	TestNo: **OKGRO**		Analysis Date: **11/12/2012**	SeqNo: **64498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	124	0.0500	100.0	0	124	41.3	127				
Surr: 4-Bromofluorobenzene	129		100.0		129	15.1	177				
Surr: Trifluorotoluene	120		100.0		120	32.1	144				

Sample ID **1211038-001CMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **4702**
Client ID: **MW-1**	Batch ID: **R4702**	TestNo: **OKGRO**		Analysis Date: **11/12/2012**	SeqNo: **64499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	98.3	0.0500	100.0	0	98.3	41.3	127	124.0	23.1	18.9	R

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

Original

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Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1211038**

13-Nov-12

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual **TestNo:** **OKGRO**

Sample ID: 1211038-001CMSD	SampType: MSD	TestCode: TPHGRO_W	Units: mg/L	Prep Date:	RunNo: 4702
Client ID: MW-1	Batch ID: R4702	TestNo: OKGRO		Analysis Date: 11/12/2012	SeqNo: 64499

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	71.4		100.0		71.4	15.1	177		0	0	
Surr: Trifluorotoluene	94.1		100.0		94.1	32.1	144		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

121038

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING — ENVIRONMENTAL — CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4813
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
A & M Engineering	Ty Ertugrul	918-665-6575

PROJECT NUMBER	PROJECT NAME
2067-009	ARROW CONCRETE 2ND SEMI-ANNUAL

SAMPLERS: (Signature) Jon Rush

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH ? YES	RUSH ? NO	TOTAL METALS	ALKALINITY	pH	TPH DIESEL	TSS	REMARKS
	11/2/12	12:45			MW - 1	LIQ.	5		X	X	X	X	X	X	
	11/2/12	12:05			MW - 2	LIQ.	5		X	X	X	X	X	X	
	11/2/12	12:27			MW - 3	LIQ.	5		X	X	X	X	X	X	

ANALYTICAL TESTS REQUIRED

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Jon Rush	11/2/12	13:41	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Rec'd nice @ 4c

CHAIN.DWG

May. 9, 2013

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: Groundwater Monitoring Semi-Annual Report prepared for Arrow Concrete, Broken Arrow, Oklahoma.

Dear, Ms. Chard-McClary

Enclosed is one copy of the First Semi Annual Monitoring Report for Arrow Concrete of Broken Arrow, Oklahoma, conducted in the first half of the year 2013. The report is a requirement as part of the Facilities Stormwater Discharge Permit.

If you have any questions, please call me at (918) 665-6575.

Sincerely,

Ty Ertugrul
Project Manager

Cc: Mike Boley

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

April 11, 2013

Turgay Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 409-7988
FAX (918) 656-6576

RE: Arrow Concrete Semi-Annual Order No.: 1304037

Dear Turgay Ertugrul:

Green Country Testing, Inc. received 3 sample(s) on 4/3/2013 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

Original

Green Country Testing, Inc.
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Analytical Report
(continuous)

WO#: 1304037
Date Reported: 4/11/2013

CLIENT: A & M Engineering
Lab Order: 1304037
Project: Arrow Concrete Semi-Annual

Lab ID: 1304037-001
Collection Date: 4/3/2013 11:35:00 AM
Client Sample ID: MW-1
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				E245.2		Analyst: KR
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	4/5/2013 4:48:57 PM
PERMIT METALS				E200.7		Analyst: KR
METALS IN WATER BY ICP, TOTAL						
Arsenic	0.0112	0.00500		mg/L	1	4/8/2013 2:32:03 PM
Cadmium	< 0.00100	0.00100		mg/L	1	4/8/2013 2:32:03 PM
Chromium	< 0.0100	0.0100		mg/L	1	4/8/2013 2:32:03 PM
Copper	0.0101	0.0100		mg/L	1	4/8/2013 2:32:03 PM
Lead	< 0.00500	0.00500		mg/L	1	4/8/2013 2:32:03 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	4/8/2013 2:32:03 PM
Nickel	< 0.0100	0.0100		mg/L	1	4/8/2013 2:32:03 PM
Selenium	< 0.00500	0.00500		mg/L	1	4/8/2013 2:32:03 PM
Silver	0.00240	0.00200		mg/L	1	4/8/2013 2:32:03 PM
Zinc	0.0201	0.0100		mg/L	1	4/8/2013 2:32:03 PM
DIESEL RANGE ORGANICS IN WATER				OKDRO		Analyst: SM
TPH (Diesel)	< 1.00	1.00		mg/L	1	4/9/2013 7:07:00 PM
TPH (Oil)	< 1.00	1.00		mg/L	1	4/9/2013 7:07:00 PM
Surr: p-Terphenyl	53.3	2.32-163		%REC	1	4/9/2013 7:07:00 PM
GASOLINE RANGE ORGANICS IN WATER				OKGRO		Analyst: SM
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	4/4/2013 2:55:00 PM
Surr: 4-Bromofluorobenzene	110	21.1-183		%REC	1	4/4/2013 2:55:00 PM
Surr: Trifluorotoluene	97.6	27.3-171		%REC	1	4/4/2013 2:55:00 PM
ALKALINITY IN WATER				A2320B		Analyst: MP
Alkalinity, Total (As CaCO3)	312	2.50		mg/L	1	4/11/2013 9:30:00 AM
PH				A4500-H+B		Analyst: PAB
pH	6.68	0.100		pH Units	1	4/3/2013 2:20:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Analytical Report
(continuous)

WO#: 1304037
Date Reported: 4/11/2013

CLIENT: A & M Engineering
Project: Arrow Concrete Semi-Annual
Lab Order: 1304037

TOTAL SUSPENDED SOLIDS

A2540D — Analyst: PAB

Suspended Solids (Residue, Non-Filterable)	75.0	5.00	mg/L	1	4/5/2013 11:00:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Green Country Testing

Analytical Report

(continuous)

WO#: 1304037

Date Reported: 4/11/2013

CLIENT: A & M Engineering

Lab Order: 1304037

Project: Arrow Concrete Semi-Annual

Lab ID: 1304037-002

Collection Date: 4/3/2013 10:40:00 AM

Client Sample ID: MW-2

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				E245.2		Analyst: KR
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	4/5/2013 4:40:57 PM
PERMIT METALS				E200.7		Analyst: KR
METALS IN WATER BY ICP, TOTAL						
Arsenic	< 0.00500	0.00500		mg/L	1	4/8/2013 2:38:59 PM
Cadmium	< 0.00100	0.00100		mg/L	1	4/8/2013 2:38:59 PM
Chromium	< 0.0100	0.0100		mg/L	1	4/8/2013 2:38:59 PM
Copper	< 0.0100	0.0100		mg/L	1	4/8/2013 2:38:59 PM
Lead	< 0.00500	0.00500		mg/L	1	4/8/2013 2:38:59 PM
Molybdenum	< 0.0100	0.0100		mg/L	1	4/8/2013 2:38:59 PM
Nickel	< 0.0100	0.0100		mg/L	1	4/8/2013 2:38:59 PM
Selenium	< 0.00500	0.00500		mg/L	1	4/8/2013 2:38:59 PM
Silver	< 0.00200	0.00200		mg/L	1	4/8/2013 2:38:59 PM
Zinc	< 0.0100	0.0100		mg/L	1	4/8/2013 2:38:59 PM
DIESEL RANGE ORGANICS IN WATER				OKDRO		Analyst: SM
TPH (Diesel)	< 1.00	1.00		mg/L	1	4/9/2013 7:07:00 PM
TPH (Oil)	< 1.00	1.00		mg/L	1	4/9/2013 7:07:00 PM
Surr: p-Terphenyl	51.0	2.32-183		%REC	1	4/9/2013 7:07:00 PM
GASOLINE RANGE ORGANICS IN WATER				OKGRO		Analyst: SM
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	4/4/2013 2:55:00 PM
Surr: 4-Bromofluorobenzene	107	21.1-183		%REC	1	4/4/2013 2:55:00 PM
Surr: Trifluorotoluene	103	27.3-171		%REC	1	4/4/2013 2:55:00 PM
ALKALINITY IN WATER				A2320B		Analyst: MP
Alkalinity, Total (As CaCO3)	356	2.50		mg/L	1	4/11/2013 9:30:00 AM
PH				A4500-H+B		Analyst: PAB
pH	6.76	0.100		pH Units	1	4/3/2013 2:20:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Analytical Report
(continuous)

WO#: 1304037
Date Reported: 4/11/2013

CLIENT: A & M Engineering
Project: Arrow Concrete Semi-Annual
Lab Order: 1304037

TOTAL SUSPENDED SOLIDS

A2540D — Analyst: PAB

Suspended Solids (Residue, Non-Filterable)	33.0	5.00	mg/L	1	4/5/2013 11:00:00 AM

Qualifiers:
- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Non-NELAC Accredited Parameter
- P Second column confirmation exceeds
- R RPD outside accepted recovery limits
- C Value is below Minimum Compound Limit
- H Holding times for preparation or analysis exceeded
- M Manual integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit
- RL Reporting Detection Limit

Original

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Analytical Report
(continuous)

WO#: 1304037
Date Reported: 4/11/2013

CLIENT: A & M Engineering
Lab Order: 1304037
Project: Arrow Concrete Semi-Annual

Lab ID: 1304037-003
Collection Date: 4/3/2013 10:59:00 AM
Client Sample ID: MW-3
Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
PERMIT METALS				E245.2		Analyst: KR
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	4/5/2013 4:48:57 PM
PERMIT METALS				E200.7		Analyst: KR
METALS IN WATER BY ICP, TOTAL						
Arsenic	0.0103	0.00500		mg/L	1	4/8/2013 2:45:47 PM
Cadmium	< 0.00100	0.00100		mg/L	1	4/8/2013 2:45:47 PM
Chromium	0.0168	0.0100		mg/L	1	4/8/2013 2:45:47 PM
Copper	< 0.0100	0.0100		mg/L	1	4/8/2013 2:45:47 PM
Lead	< 0.00500	0.00500		mg/L	1	4/8/2013 2:45:47 PM
Molybdenum	0.0208	0.0100		mg/L	1	4/8/2013 2:45:47 PM
Nickel	< 0.0100	0.0100		mg/L	1	4/8/2013 2:45:47 PM
Selenium	< 0.00500	0.00500		mg/L	1	4/8/2013 2:45:47 PM
Silver	< 0.00200	0.00200		mg/L	1	4/8/2013 2:45:47 PM
Zinc	< 0.0100	0.0100		mg/L	1	4/8/2013 2:45:47 PM
DIESEL RANGE ORGANICS IN WATER				OKDRO		Analyst: SM
TPH (Diesel)	< 1.00	1.00		mg/L	1	4/9/2013 7:07:00 PM
TPH (Oil)	< 1.00	1.00		mg/L	1	4/9/2013 7:07:00 PM
Surr: p-Terphenyl	73.9	2.32-183		%REC	1	4/9/2013 7:07:00 PM
GASOLINE RANGE ORGANICS IN WATER				OKGRO		Analyst: SM
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	4/4/2013 2:55:00 PM
Surr: 4-Bromofluorobenzene	125	21.1-183		%REC	1	4/4/2013 2:55:00 PM
Surr: Trifluorotoluene	110	27.3-171		%REC	1	4/4/2013 2:55:00 PM
ALKALINITY IN WATER				A2320B		Analyst: MP
Alkalinity, Total (As CaCO3)	114	2.50		mg/L	1	4/11/2013 9:30:00 AM
PH				A4500-H+B		Analyst: PAB
pH	8.48	0.100		pH Units	1	4/3/2013 2:20:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Value above quantitation range
- J Analyte detected below quantitation limits
- N Non-NELAC Accredited Parameter
- P Second column confirmation exceeds
- R RPD outside accepted recovery limits
- S Value is below Minimum Compound Limit
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit
- RL Reporting Detection Limit

Original

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Website: www.greencountrytesting.com

Analytical Report
(continuous)

WO#: 1304037
Date Reported: 4/11/2013

CLIENT: A & M Engineering
Project: Arrow Concrete Semi-Annual
Lab Order: 1304037

TOTAL SUSPENDED SOLIDS

A2540D — Analyst: PAB

Suspended Solids (Residue, Non-Filterable)	8.00	5.00	mg/L	1	4/5/2013 11:00:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit
B	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-528-9977 FAX: 918-528-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: 1304037

11-Apr-13

Client: A & M Engineering

Project: Arrow Concrete Semi-Annual

TestNo: A2320B

Sample ID MB-R6550	SampType: MBLK	TestCode: ALK	Units: mg/L	Prep Date:	RunNo: 6550
Client ID: PBW	Batch ID: R6550	TestNo: A2320B		Analysis Date: 4/11/2013	SeqNo: 88470

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	< 2.50	2.50									

Sample ID LCS-R6550	SampType: LCS	TestCode: ALK	Units: mg/L	Prep Date:	RunNo: 6550
Client ID: LCSW	Batch ID: R6550	TestNo: A2320B		Analysis Date: 4/11/2013	SeqNo: 88471

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	102	2.50	100.0	0	102	80	120				

Sample ID 1304037-003ADUP	SampType: DUP	TestCode: ALK	Units: mg/L	Prep Date:	RunNo: 6550
Client ID: MW-3	Batch ID: R6550	TestNo: A2320B		Analysis Date: 4/11/2013	SeqNo: 88475

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	112	2.50						114.0	1.77	4.39	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6035 E 38th Street
Tulsa, OK 74145
TEL: 918-528-9077 FAX: 918-528-7556
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: 1304037

11-Apr-13

Client: A & M Engineering

Project: Arrow Concrete Semi-Annual

TestNo: A2540D

Sample ID	MB-R6514	SampType: MBLK	TestCode: TSS	Units: mg/L	Prep Date:	RunNo: 6514
Client ID:	PBW	Batch ID: R6514	TestNo: A2540D		Analysis Date: 4/5/2013	SeqNo: 88053

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	< 5.00	5.00									

Sample ID	LCS-R6514	SampType: LCS	TestCode: TSS	Units: mg/L	Prep Date:	RunNo: 6514
Client ID:	LCSW	Batch ID: R6514	TestNo: A2540D		Analysis Date: 4/5/2013	SeqNo: 88054

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	96.0	5.00	92.00	0	107	80	120				

Sample ID	1304030-001ADUP	SampType: DUP	TestCode: TSS	Units: mg/L	Prep Date:	RunNo: 6514
Client ID:	BatchQC	Batch ID: R6514	TestNo: A2540D		Analysis Date: 4/5/2013	SeqNo: 88060

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	29.0	5.00						28.00	3.51	5	

Sample ID	1304031-002ADUP	SampType: DUP	TestCode: TSS	Units: mg/L	Prep Date:	RunNo: 6514
Client ID:	BatchQC	Batch ID: R6514	TestNo: A2540D		Analysis Date: 4/5/2013	SeqNo: 88071

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	105	5.00						103.0	2.87	5	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- M Manual Integration used to determine area response
- P Second column confirmation exceeds 40%
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- N Non-NELAC Accredited Parameter
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits
- C Value is below Minimum Compound Limit
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-528-7736
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: 1304037
11-Apr-13

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: A4500-H+B

Sample ID	LCS-R6458	SampType: LCS	TestCode: PH	Units: pH Units	Prep Date:	RunNo: 6458
Client ID:	LCSW	Batch ID: R6458	TestNo: A4500-H+B		Analysis Date: 4/3/2013	SeqNo: 87319

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.98	0.100	9.000	0	99.8	80	120				

Sample ID	1304033-002ADUP	SampType: DUP	TestCode: PH	Units: pH Units	Prep Date:	RunNo: 6458
Client ID:	BatchQC	Batch ID: R6458	TestNo: A4500-H+B		Analysis Date: 4/3/2013	SeqNo: 87322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	5.60	0.100						5.620	0.344	1.4	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Dual column confirmation used	PL	Permit Limit	R	RPD exceeds advisory limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

Green Country Testing, Inc.
6525 E 58th Street
Tulsa, OK 74145
TEL: 918-528-9977 FAX: 918-828-7758
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: 1304037

11-Apr-13

Client: A & M Engineering

Project: Arrow Concrete Semi-Annual

TestNo: E200.7

Sample ID: MB-2050	SampType: MBLK	TestCode: MET_WW_T	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6508
Client ID: PBW	Batch ID: R6508	TestNo: E200.7		Analysis Date: 4/8/2013	SeqNo: 87953

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Copper	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Molybdenum	< 0.0100	0.0100									
Nickel	< 0.0100	0.0100									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									
Zinc	< 0.0100	0.0100									

Sample ID: LCS-2050	SampType: LCS	TestCode: MET_WW_T	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6508
Client ID: LCSW	Batch ID: R6508	TestNo: E200.7		Analysis Date: 4/8/2013	SeqNo: 87954

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.95	0.00500	2.000	0	97.6	85	115				
Cadmium	2.09	0.00100	2.000	0	104	85	115				
Chromium	2.05	0.0100	2.000	0	103	85	115				
Copper	1.95	0.0100	2.000	0	97.4	85	115				
Lead	1.99	0.00500	2.000	0	99.4	85	115				
Molybdenum	2.03	0.0100	2.000	0	101	85	115				
Nickel	2.04	0.0100	2.000	0	102	85	115				
Selenium	1.81	0.00500	2.000	0	90.5	85	115				
Silver	0.196	0.00200	0.2000	0	97.9	85	115				
Zinc	2.05	0.0100	2.000	0	102	85	115				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

Green Country Testing, Inc.
6825 E 56th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: 1304037
11-Apr-13

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: E200.7

Sample ID 1304051-001CMS	SampType: MS	TestCode: MET_WW_T	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6508
Client ID: BatchQC	Batch ID: R6508	TestNo: E200.7		Analysis Date: 4/5/2013	SeqNo: 87956

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.03	0.00500	2.000	0	101	82.7	117				
Cadmium	2.09	0.00100	2.000	0	104	84.9	109				
Chromium	2.07	0.0100	2.000	0	104	82.8	109				
Copper	1.97	0.0100	2.000	0	98.7	90.3	114				
Lead	1.99	0.00500	2.000	0	99.4	91.7	110				
Molybdenum	2.07	0.0100	2.000	0	104	95.2	111				
Nickel	2.04	0.0100	2.000	0	102	82.7	109				
Selenium	1.85	0.00500	2.000	0	92.8	86.2	113				
Silver	0.198	0.00200	0.2000	0	99.1	91.1	113				
Zinc	2.07	0.0100	2.000	0.01400	103	82.6	109				

Sample ID 1304051-001CMSD	SampType: MSD	TestCode: MET_WW_T	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6508
Client ID: BatchQC	Batch ID: R6508	TestNo: E200.7		Analysis Date: 4/5/2013	SeqNo: 87957

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.01	0.00500	2.000	0	100	82.7	117	2.028	0.986	3.22	
Cadmium	2.07	0.00100	2.000	0	104	84.9	109	2.088	0.764	3.59	
Chromium	2.06	0.0100	2.000	0	103	82.8	109	2.072	0.833	3.65	
Copper	1.96	0.0100	2.000	0	95.2	90.3	114	1.974	0.487	3.62	
Lead	1.98	0.00500	2.000	0	99.0	91.7	110	1.989	0.423	3.15	
Molybdenum	2.06	0.0100	2.000	0	103	95.2	111	2.071	0.470	3.53	
Nickel	2.02	0.0100	2.000	0	101	82.7	109	2.040	0.723	3.53	
Selenium	1.82	0.00500	2.000	0	91.2	86.2	113	1.855	1.73	3.82	
Silver	0.198	0.00200	0.2000	0	98.9	91.1	113	0.1982	0.202	4.43	
Zinc	2.06	0.0100	2.000	0.01400	102	82.6	109	2.072	0.568	3.74	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

Green Country Testing, Inc
6525 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: 1304037
11-Apr-13

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: E245.2

Sample ID	MB-R6492	SampType: MBLK	TestCode: HG_WW	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6492
Client ID:	PBW	Batch ID: R6492	TestNo: E245.2		Analysis Date: 4/5/2013	SeqNo: 87781

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00010	0.00010									

Sample ID	LCS-R6492	SampType: LCS	TestCode: HG_WW	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6492
Client ID:	LCSW	Batch ID: R6492	TestNo: E245.2		Analysis Date: 4/5/2013	SeqNo: 87782

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00100	0.000100	0.001000	0	100	85	115				

Sample ID	1304037-003BMS	SampType: MS	TestCode: HG_WW	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6492
Client ID:	MW-3	Batch ID: R6492	TestNo: E245.2		Analysis Date: 4/5/2013	SeqNo: 87784

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000866	0.000100	0.001000	0	86.6	68.1	121				

Sample ID	1304037-003BMSD	SampType: MSD	TestCode: HG_WW	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6492
Client ID:	MW-3	Batch ID: R6492	TestNo: E245.2		Analysis Date: 4/5/2013	SeqNo: 87785

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000926	0.000100	0.001000	0	92.5	68.1	121	0.0008658	6.70	5.13	R

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is Below Minimum Compound Limit
E	Value above quantitation range	H	Holding time for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area counts	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

Green Country Testing, Inc.
6825 E 58th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: 1304037
11-Apr-13

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: E245.2

Sample ID	1304055-002BMS	SampType: MS	TestCode: Hg_GW_Diss	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6492
Client ID:	BatchQC	Batch ID: R6492	TestNo: E245.2		Analysis Date: 4/5/2013	SeqNo: 87787

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000834	0.000100	0.001000	0	83.4	68.1	121				

Sample ID	1304055-002BMSD	SampType: MSD	TestCode: Hg_GW_Diss	Units: mg/L	Prep Date: 4/5/2013	RunNo: 6492
Client ID:	BatchQC	Batch ID: R6492	TestNo: E245.2		Analysis Date: 4/5/2013	SeqNo: 87756

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000956	0.000100	0.001000	0	96.6	68.1	121	0.0008340	14.7	5.13	R

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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Green Country TESTING

QC SUMMARY REPORT

WO#: 1304037
11-Apr-13

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: OKDRO

Sample ID MB-R6557 SampType: MBLK TestCode: TPHDRO_W Units: mg/L Prep Date: RunNo: 6557
Client ID: PBW Batch ID: R6557 TestNo: OKDRO Analysis Date: 4/9/2013 SeqNo: 88550

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	< 1.00	1.00									
TPH (Oil)	< 1.00	1.00									
Surr: p-Terphenyl	58.8		100.0		58.8	2.32	183				

Sample ID LCS-R6557 SampType: LCS TestCode: TPHDRO_W Units: mg/L Prep Date: RunNo: 6557
Client ID: LCSW Batch ID: R6557 TestNo: OKDRO Analysis Date: 4/9/2013 SeqNo: 88551

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	103	1.00	100.0	0	103	80	120				
TPH (Oil)	< 1.00	1.00	100.0	0	0	80	120				S
Surr: p-Terphenyl	75.1		100.0		75.1	2.32	183				

Sample ID 1304037-001CMS SampType: MS TestCode: TPHDRO_W Units: mg/L Prep Date: 4/9/2013 RunNo: 6557
Client ID: MW-1 Batch ID: R6557 TestNo: OKDRO Analysis Date: 4/9/2013 SeqNo: 88553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	79.1	1.00	100.0	0	79.1	80	120				S
TPH (Oil)	< 1.00	1.00	100.0	0	0	22	162				S
Surr: p-Terphenyl	124		100.0		124	2.32	183				

Sample ID 1304037-001CMSD SampType: MSD TestCode: TPHDRO_W Units: mg/L Prep Date: 4/9/2013 RunNo: 6557
Client ID: MW-1 Batch ID: R6557 TestNo: OKDRO Analysis Date: 4/9/2013 SeqNo: 88554

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	78.9	1.00	100.0	0	78.9	80	120	79.10	0.253	20	S

Qualifiers:
- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- M Manual integration used to determine area response
- P Second column confirmation exceeds
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding time for preparation or analysis exceeded
- N Non-NELAC Accredited Parameter
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits
- C Value is below Minimum Compound Limit
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Original

Green Country Testing, Inc.
6525 E 56th Street
Tulsa, OK 74145
TEL: 918-528-9977 FAX: 918-528-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: 1304037
11-Apr-13

Client: A & M Engineering
Project: Arrow Concrete Semi-Annual

TestNo: OKDRO

Sample ID 1304037-001CMSD	SampType: MSD	TestCode: TPHDRO_W	Units: mg/L	Prep Date: 4/9/2013	RunNo: 6557
Client ID: BW-1	Batch ID: R6557	TestNo: OKDRO		Analysis Date: 4/9/2013	SeqNo: 88564

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Oil)	< 1.00	1.00	100.0	0	0	22	162	0	0	15.9	S
Surr: p-Terphenyl	91.4		100.0		91.4	2.32	183		0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- N Non-NELAC Accredited Parameter
- PL Permit Limit
- S Spike Recovery outside accepted recovery limits
- C Value is below Minimum Compound Limit
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limit

Green Country Testing, Inc.
6823 E 38th Street
Tulsa, OK 74145
TEL: 918-528-9977 FAX: 918-528-7756
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Green Country TESTING

QC SUMMARY REPORT

WO#: 1304037

11-Apr-13

Client: A & M Engineering

Project: Arrow Concrete Semi-Annual

TestNo: OKGRO

Sample ID MS-R6497	SampType: MBLK	TestCode: TPHGRO_W	Units: mg/L	Prep Date:	RunNo: 6497
Client ID: PBW	Batch ID: R6497	TestNo: OKGRO		Analysis Date: 4/4/2013	SeqNo: 87848

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	120		100.0		120	21.1	183				
Surr: Trifluorotoluene	127		100.0		127	27.3	171				

Sample ID LCS-R6497	SampType: LCS	TestCode: TPHGRO_W	Units: mg/L	Prep Date:	RunNo: 6497
Client ID: LCSW	Batch ID: R6497	TestNo: OKGRO		Analysis Date: 4/4/2013	SeqNo: 87849

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	103	0.0500	100.0	0	103	80	120				
Surr: 4-Bromofluorobenzene	121		100.0		121	21.1	183				
Surr: Trifluorotoluene	119		100.0		119	27.3	171				

Sample ID 1304037-001CMS	SampType: MS	TestCode: TPHGRO_W	Units: mg/L	Prep Date:	RunNo: 6497
Client ID: MW-1	Batch ID: R6497	TestNo: OKGRO		Analysis Date: 4/4/2013	SeqNo: 87851

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	71.4	0.0500	100.0	0	71.4	80	120				S
Surr: 4-Bromofluorobenzene	115		100.0		115	21.1	183				
Surr: Trifluorotoluene	105		100.0		105	27.3	171				

Sample ID 1304037-001CMSD	SampType: MSD	TestCode: TPHGRO_W	Units: mg/L	Prep Date:	RunNo: 6497
Client ID: MW-1	Batch ID: R6497	TestNo: OKGRO		Analysis Date: 4/4/2013	SeqNo: 87852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	73.5	0.0500	100.0	0	73.5	80	120	71.40	2.90	20	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Consistent Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

Green Country Testing, Inc.
6825 E 35th Street
Tulsa, OK 74145
TEL: 918-838-9977 FAX: 918-836-7556
Website: www.greencountrytesting.com

Green Country LINE

QC SUMMARY REPORT

WO#: 1304037

11-Apr-13

Client: A & M Engineering

Project: Arrow Concrete Semi-Annual

TestNo: OKGRO

Sample ID 1304037-001CMSD	SampType: MSD	TestCode: TPHGRO_W	Units: mg/L	Prep Date:	RunNo: 6497
Client ID: MW-1	Batch ID: R6497	TestNo: OKGRO		Analysis Date: 4/4/2013	SeqNo: 87852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	81.9		100.0		81.9	21.1	183		0	0	
Surr: Trifluorotoluene	98.1		100.0		98.1	27.3	171		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Dual column confirmation results	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

1304037

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING — ENVIRONMENTAL — CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4613
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM: A & M Engineering

CLIENT CONTACT: Ty Entrugrud

PHONE NUMBER: 918-665-6575

PROJECT NUMBER: 2067-009

PROJECT NAME: Arrow Concrete Semi Annual

SAMPLERS: (Signature)

ANALYTICAL TESTS REQUIRED

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH 1 YES	RUSH 1 NO	Total Metals	Alkalinity	pH	TDS Dissolved	TSS							REMARKS
	4/3/13	11:35			MW-1	LiQ	5		X	X	X	X	X	X							
	4/3/13	10:40			MW-2	LiQ	5		X	X	X	X	X	X							
	4/3/13	1059			MW-3	LiQ	5		X	X	X	X	X	X							

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
[signature]	4/3/13	11:59	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Peldonice@ic

FIELD WATER QUALITY SAMPLING AND ANAYLSIS DATA SHEET

PROJECT NAME: Arrow Creek Semi PROJECT NO: 2067-009

SAMPLER NAME: [illegible] PERSON PRESENT: _____

WEATHER: [illegible] AIR TEMP: 45°F LAST PRECIPT. _____

LOCATION (STATION NO.)	MW-2		MW-3		MW-1			
DATE AND TIME WATER LEVEL MEASURED	4/2/13	11:03	4/2/13	11:08	4/2/13	11:13		
DATE AND TIME PURGED	4/2/13	11:20	4/2/13	11:29	4/2/13	11:55		
DATE AND TIME SAMPLED	4/2/13	10:40	4/2/13	10:59	4/2/13	11:30		
SAMPLING METHOD	Bailer		Bailer		Bailer			
TOP OF CASING ELEV.								
DEPTH TO WATER (DTW)	5.35		9.46		2.01			
TOTAL DEPTH (TD)	17.15		15.55		17.68			
REQUIRED PURGE VOLUME								
VOLUME PURGED								
THICKNESS OF NAPL/DNAPL	None		None		None			
SUBSTANCE ON WATER	None		None		None			
SAMPLING TEMP.	13.4	13.5	11.2	11.1	10.9	11.3		
	13.6	13.5	11.1	11.1	12.1	12.0		
SAMPLING PH	7.3	7.4	9.2	9.1	7.4	7.5		
(INST. NAME)	7.4	7.4	9.2	9.2	7.3	7.4		
SAMPLING SPEC. COND	1396	1392	519	516	995	984		
(INST. NAME)	1398	1396	516	520	991	982		
COLOR	Clear Muddy		Clear Hazy		Hazy			
ODOR	None		Sulfur		None			
SEDIMENT	None		None		None			
FIELD TREATMENT PRESERVATION	Preserved		Preserved		Preserved			
PURGING/SAMPLING PLAN AND PROCEDURES FOLLOWED?	yes		yes		yes			
OTHER								

NOTE: _____

Volume calculation: 2" – 0.163 gal/ft, 3" – 0.367 gal/ft, 4" – 0.653 gal/ft {[(TD-DTW) x gal/ft] x 3} + 3.5 gal = volume to evac.

GREENHILL CONCRETE COMPANY
GROUNDWATER REPORT
SEMI-ANNUAL REPORT

FACILITY ID I-72002620
PERMIT No. OK0045781

NOVEMBER 2013

A & M PROJECT No. 2067-013

Prepared for:
Greenhill Concrete Company
Broken Arrow, Oklahoma

Prepared by:

A & M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, Oklahoma 74128-4813
Phone (918) 665-6575 and Fax (918) 665-6576
E-mail: aandmengineering.com

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.
10010 E. 16TH STREET
TULSA, OKLAHOMA 74128-4611
www.aandmengineering.com
ENGINEERING • ENVIRONMENTAL • CONSTRUCTION
(918) 665-6575 • FAX (918) 665-6576
EMAIL: aandm@aandmengineering.com

November 27, 2013

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: Groundwater Monitoring Semi-Annual Report prepared for Greenhill Concrete, Broken Arrow, Oklahoma.

Dear Ms. Chard-McClary,

Enclosed is one copy of the Second Semi Annual Monitoring Report for Greenhill Concrete of Broken Arrow, Oklahoma, conducted in the second half of the year 2013. The report is a requirement as part of the Facilities Stormwater Discharge Permit.

If you have any questions, please call me at (918) 665-6575.

Sincerely,

Ty Ertugrul
Project Manager

Cc: Phil Rush

Enclosure: Analytical Report

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

November 15, 2013

Ty Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 665-6575
FAX (918) 665-6576

RE: Greenhill Concrete Order No.: 1311087

Dear Ty Ertugrul:

Green Country Testing, Inc. received 2 sample(s) on 11/7/2013 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

cc:
Gavin James

Original

Green Country Testing, Inc.
6825 E.38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

Lab ID: 1311087-001 **Collection Date:** 11/7/2013 1:40:00 PM

Client Sample ID: MW-1 **Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
RCRA METALS IN WATER **MERCURY IN WATER, TOTAL**				**E245.2**		Analyst: **KR**
Mercury	< 0.00010	0.00010		mg/L	1	11/8/2013 5:37:02 PM
RCRA METALS IN WATER **METALS IN WATER BY ICP, TOTAL**				**E200.7**		Analyst: **KR**
Arsenic	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Barium	0.0923	0.0100		mg/L	1	11/8/2013 8:04:39 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/8/2013 8:04:39 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/8/2013 8:04:39 PM
Lead	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Silver	< 0.00200	0.00200		mg/L	1	11/8/2013 8:04:39 PM
TPH DRO IN WATER **DIESEL RANGE ORGANICS IN WATER**				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/14/2013 2:35:00 PM
Surr: p-Terphenyl	37.0	5-183		%REC	1	11/14/2013 2:35:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/13/2013 11:01:00 AM
Surr: 4-Bromofluorobenzene	125	29.6-177		%REC	1	11/13/2013 11:01:00 AM
Surr: Trifluorotoluene	123	30.3-188		%REC	1	11/13/2013 11:01:00 AM
ALKALINITY IN WATER				**A2320B, 1997**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	456	2.50		mg/L	1	11/8/2013 2:15:00 PM
PH				**A4500-H+B, 1996**		Analyst: **PAB**
pH	6.92	0.100		pH Units	1	11/7/2013 5:30:00 PM
TOTAL DISSOLVED SOLIDS				**A2540C, 1997**		Analyst: **PAB**

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Green Country Testing, Inc.
6825 E.38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

TOTAL DISSOLVED SOLIDS			**A2540C, 1997**		Analyst: **PAB**
Total Dissolved Solids (Residue, Filterable)	485	10.0	mg/L	1	11/13/2013 8:30:00 AM
TOTAL SUSPENDED SOLIDS			**A2540D, 1997**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	66.0	5.00	mg/L	1	11/11/2013 10:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Green Country TESTING

Analytical Report
(continuous)

WO#: **1311087**
Date Reported: **11/15/2013**

CLIENT: A & M Engineering
Project: Greenhill Concrete
Lab Order: 1311087

Lab ID: 1311087-002
Client Sample ID: MW-2
Collection Date: 11/7/2013 1:50:00 PM
Matrix: LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
RCRA METALS IN WATER				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	11/8/2013 5:37:02 PM
RCRA METALS IN WATER				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Barium	0.135	0.0100		mg/L	1	11/8/2013 8:10:15 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/8/2013 8:10:15 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/8/2013 8:10:15 PM
Lead	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Silver	< 0.00200	0.00200		mg/L	1	11/8/2013 8:10:15 PM
TPH DRO IN WATER				**OKDRO**		Analyst: **SM**
DIESEL RANGE ORGANICS IN WATER						
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/14/2013 2:35:00 PM
Surr: p-Terphenyl	40.8	5-183		%REC	1	11/14/2013 2:35:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/13/2013 11:01:00 AM
Surr: 4-Bromofluorobenzene	125	29.6-177		%REC	1	11/13/2013 11:01:00 AM
Surr: Trifluorotoluene	126	30.3-188		%REC	1	11/13/2013 11:01:00 AM
ALKALINITY IN WATER				**A2320B, 1997**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	198	2.50		mg/L	1	11/8/2013 2:15:00 PM
PH				**A4500-H+B, 1996**		Analyst: **PAB**
pH	7.10	0.100		pH Units	1	11/7/2013 5:30:00 PM
TOTAL DISSOLVED SOLIDS				**A2540C, 1997**		Analyst: **PAB**

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

TOTAL DISSOLVED SOLIDS			**A2540C, 1997**		Analyst: **PAB**
Total Dissolved Solids (Residue, Filterable)	342	10.0	mg/L	1	11/13/2013 8:30:00 AM
TOTAL SUSPENDED SOLIDS			**A2540D, 1997**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	15.0	5.00	mg/L	1	11/11/2013 10:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Green Country Testing, Inc.
6825 E.38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete
TestNo: **A2320B, 1997**

Sample ID **MB-R9495**	SampType: **MBLK**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **PBW**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	< 2.50	2.50									

Sample ID **LCS-R9495**	SampType: **LCS**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **LCSW**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	98.0	2.50	100.0	0	98.0	80	120				

Sample ID **1311049-004ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **BatchQC**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	70.0	2.50						72.00	2.82	3.95	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A2540C, 1997**

Sample ID **MB-R9561**	SampType: **MBLK**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **PBW**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0									

Sample ID **LCS-R9561**	SampType: **LCS**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **LCSW**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	966	10.0	981.0	0	98.5	80	120				

Sample ID **1311095-001ADUP**	SampType: **DUP**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **BatchQC**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	174	10.0						176.0	1.14	4.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A2540D, 1997**

Sample ID	MB-R9516	SampType:	MBLK	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	PBW	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121205		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		< 5.00	5.00										

Sample ID	LCS-R9516	SampType:	LCS	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	LCSW	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121206		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		39.0	5.00	40.00	0	97.5	80	120					

Sample ID	1311095-001ADUP	SampType:	DUP	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	BatchQC	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121213		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		75.0	5.00						73.00	2.70	5		

Sample ID	1311110-001ADUP	SampType:	DUP	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	BatchQC	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121224		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		32.0	5.00						32.00	0	5		

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A4500-H+B, 1996**

Sample ID	LCS-R9484	SampType:	LCS	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	9484		
Client ID:	LCSW	Batch ID:	R9484	TestNo:	A4500-H+B, 1			Analysis Date:	11/7/2013	SeqNo:	120943		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH		8.95	0.100	9.000	0	99.4	80	120					

Sample ID	1311097-001ADUP	SampType:	DUP	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	9484		
Client ID:	BatchQC	Batch ID:	R9484	TestNo:	A4500-H+B, 1			Analysis Date:	11/7/2013	SeqNo:	120949		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH		7.70	0.100						7.670	0.390	1.4		

Qualifiers:

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M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E200.7**

Sample ID **MB-2846**	SampType: **MBLK**	TestCode: **MET_WW_T**	Units: mg/L	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **PBW**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Barium	< 0.0100	0.0100									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									

Sample ID **LCS-2846**	SampType: **LCS**	TestCode: **MET_WW_T**	Units: mg/L	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **LCSW**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.95	0.00500	2.000	0	97.5	85	115				
Barium	2.11	0.0100	2.000	0	105	85	115				
Cadmium	2.10	0.00100	2.000	0	105	85	115				
Chromium	2.02	0.0100	2.000	0	101	85	115				
Lead	2.05	0.00500	2.000	0	103	85	115				
Selenium	1.95	0.00500	2.000	0	97.6	85	115				
Silver	0.195	0.00200	0.2000	0	97.5	85	115				

Sample ID **1311040-001BMS**	SampType: **MS**	TestCode: **MET_WW_T**	Units: mg/L	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.05	0.00500	2.000	0	103	89.3	112				

Qualifiers:

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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E200.7**

Sample ID **1311040-001BMS**	SampType: **MS**	TestCode: **MET_WW_T**	Units: mg/L	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.16	0.0100	2.000	0	108	92	110				
Cadmium	2.15	0.00100	2.000	0	107	92.5	113				
Chromium	2.05	0.0100	2.000	0	102	89.6	111				
Lead	1.98	0.00500	2.000	0	99.1	90.5	107				
Selenium	2.03	0.00500	2.000	0	101	90.2	110				
Silver	0.200	0.00200	0.2000	0	100	85.9	114				

Sample ID **1311040-001BMSD**	SampType: **MSD**	TestCode: **MET_WW_T**	Units: mg/L	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.05	0.00500	2.000	0	103	89.3	112	2.051	0.0488	4.08	
Barium	2.14	0.0100	2.000	0	107	92	110	2.164	1.02	5.05	
Cadmium	2.15	0.00100	2.000	0	107	92.5	113	2.146	0.0466	4.3	
Chromium	2.05	0.0100	2.000	0	102	89.6	111	2.047	0.0977	4.3	
Lead	1.99	0.00500	2.000	0	99.6	90.5	107	1.982	0.453	4.19	
Selenium	2.03	0.00500	2.000	0	102	90.2	110	2.027	0.246	4.34	
Silver	0.197	0.00200	0.2000	0	98.6	85.9	114	0.1999	1.41	5.23	

Qualifiers:

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QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E245.2**

Sample ID	MB-R9498	SampType:	MBLK	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	PBW	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121008		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		< 0.00010		0.00010									

Sample ID	LCS-R9498	SampType:	LCS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	LCSW	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121009		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.000997		0.000100	0.001000	0	99.7	85	115				

Sample ID	1311060-001CMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	BatchQC	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121011		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00100		0.000100	0.001000	0	100	61.7	132				

Sample ID	1311060-001CMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	BatchQC	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121012		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.00102		0.000100	0.001000	0	102	61.7	132	0.001004	1.58	4.36	

Sample ID	1311087-002DMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	MW-2	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121017		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.000980		0.000100	0.001000	0	98.0	61.7	132				

Qualifiers:

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QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E245.2**

Sample ID	1311087-002DMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498
Client ID:	MW-2	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121018

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000990	0.000100	0.001000	0	99.0	61.7	132	0.0009796	1.07	4.36	

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **OKDRO**

Sample ID **MB-R9565**	SampType: **MBLK**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9565**
Client ID: **PBW**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	< 1.00	1.00									
Surr: p-Terphenyl	39.6		100.0		39.6	5	183				

Sample ID **LCS-R9565**	SampType: **LCS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9565**
Client ID: **LCSW**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	99.3	1.00	100.0	0	99.3	80	120				
Surr: p-Terphenyl	102		100.0		102	5	183				

Sample ID **1311087-001BMS**	SampType: **MS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **11/14/2013**	RunNo: **9565**
Client ID: **MW-1**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	75.8	1.00	100.0	0	75.8	80	120				S
Surr: p-Terphenyl	41.8		100.0		41.8	5	183				

Sample ID **1311087-001BMSD**	SampType: **MSD**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **11/14/2013**	RunNo: **9565**
Client ID: **MW-1**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	75.1	1.00	100.0	0	75.1	80	120	75.80	0.928	20	S
Surr: p-Terphenyl	40.9		100.0		40.9	5	183		0	0	

Qualifiers:

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Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **OKGRO**

Sample ID **MB-R9545**	SampType: **MBLK**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **PBW**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	159		100.0		159	29.6	177				
Surr: Trifluorotoluene	126		100.0		126	30.3	188				

Sample ID **LCS-R9545**	SampType: **LCS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **LCSW**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	95.1	0.0500	100.0	0	95.1	80	120				
Surr: 4-Bromofluorobenzene	108		100.0		108	29.6	177				
Surr: Trifluorotoluene	96.7		100.0		96.7	30.3	188				

Sample ID **1311087-001AMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	97.9	0.0500	100.0	0	97.9	80	120				
Surr: 4-Bromofluorobenzene	126		100.0		126	29.6	177				
Surr: Trifluorotoluene	109		100.0		109	30.3	188				

Sample ID **1311087-001AMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	103	0.0500	100.0	0	103	80	120	97.90	5.08	18.8	

Qualifiers:

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M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **OKGRO**

Sample ID **1311087-001AMSD** SampType: **MSD** TestCode: **TPHGRO_W** Units: **mg/L** Prep Date: RunNo: **9545**
Client ID: **MW-1** Batch ID: **R9545** TestNo: **OKGRO** Analysis Date: **11/13/2013** SeqNo: **121458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	129		100.0		129	29.6	177		0	0	
Surr: Trifluorotoluene	112		100.0		112	30.3	188		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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1311087

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING – ENVIRONMENTAL – CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4813
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
A & M Engineering	Ty Entrugal	918-665-6575

PROJECT NUMBER	PROJECT NAME
Greenhill Concrete	Greenhill Concrete

SAMPLERS: (Signature) Jon Kuhl

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH ? YES	RUSH ? NO	ANALYTICAL TESTS REQUIRED: TPH DRO GRO Alkalinity TDS TSS RCRA metals	REMARKS
	11/7/13	13:40			MW-1	Liq	5		X	X X X X X	
	11/7/13	13:50			MW-2	Liq	5		X	X X X X X	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Jon Kuhl	11/7/13	14:16	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Rec'd ice 15c

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Sherwood Const Co
PO Box 10
Catoosa OK 74015

72002740

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Tina Whitfield

C. Date of Delivery 11/4/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7013 1710 0001 9909 1919

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- For an additional fee, a *Return Receipt* may be requested to provide proo delivery. To obtain Return Receipt service, please complete and attach a Re Receipt (PS Form 3811) to the article and add applicable postage to cover fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver a duplicate return receipt, a USPS® postmark on your Certified Mail receip required.
- For an additional fee, delivery may be restricted to the addressee addressee's authorized agent. Advise the clerk or mark the mailpiece with endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the a cle at the post office for postmarking. If a postmark on the Certified M receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquir

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

F2C4

Superior. Always.

December 3, 2013

Ms. Shelly Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

Re: Second Semi-Annual 2013 Groundwater Monitoring Report, Greenhill Concrete Products, Inc. (Formerly Arrow Concrete) Report, Facility ID I-72002620, OPDES Permit No. OK0045781.

Dear Ms. Chard-McClary :

Attached please find the semi-annual shallow groundwater monitoring report required by the referenced report. Unlike previous reports, however, this report includes analytical results for only two monitor wells; one upgradient and one downgradient.

At the time the original facility permit was issued to Arrow Concrete, Arrow was a division of Tulsa Dynaspan, Inc. and was located on property owned by Tulsa Dynaspan. Greenhill Concrete now owns a 14.43-acre tract on the west side of the original property owned by Tulsa Dynaspan and Tulsa Dynaspan will retain ownership of the remaining portion of the property.

Surface drainage from the Arrow Concrete and Tulsa Dynaspan properties originally flowed to Pond F03 and discharged offsite via a common discharge point . Pond F03 was closed in about 2010 which led to the installation of three (3) temporary monitoring wells around the former location of Pond F03. Temporary Monitor Well Nos. 1 and 2 are now located on property that Greenhill Concrete does not own but which it is required to monitor under its OPDES discharge permit. Temporary Monitor Well No. 3 was inadevertently destroyed during clearing operations to establish the new boundary between the properties.

I believe that, in fairness to both new property owners, the Water Quality Division needs to review the attached report, along with semi-annual reports previously submitted, and decide whether groundwater monitoring needs to continue and,if so, who is responsible. The current permit does not specify any particular concerns and I have been unable to identify any obvious groundwater violations in all of the monitoring reports I have reviewed for this property.

Since neither of the remaining temporary monitoring wells is located on Greenhill Concrete's property, we also need to know whether Greenhill's discharge permit will need to be

RECEIVED
DEC 09 2013
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com| www.superiorenviro.com

revised. Brandon Tyler of your staff is aware of this situation and I am also forwarding him a copy of this report.

Please feel free to contact me if you or your staff has any questions regarding this situation. If Water Quality Division needs to schedule a site review of the properties, I will be happy to arrange that.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

cc: Greenhill Concrete Products, Inc.
Brandon Tyler

GREENHILL CONCRETE PRODUCTS, LLC.
GROUNDWATER REPORT
SEMI-ANNUAL REPORT

FACILITY ID I-72002620
PERMIT No. OK0045781

NOVEMBER 2013

A & M PROJECT No. 2067-013

Prepared for:
Greenhill Concrete Products, LLC.
Broken Arrow, Oklahoma

Prepared by:

A & M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, Oklahoma 74128-4813
Phone (918) 665-6575 and Fax (918) 665-6576
E-mail: aandmengineering.com

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.
10010 E. 16TH STREET
TULSA, OKLAHOMA 74128-4611
www.aandmengineering.com
ENGINEERING • ENVIRONMENTAL • CONSTRUCTION
(918) 665-6575 • FAX (918) 665-6576
EMAIL: aandm@aandmengineering.com

November 27, 2013

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: Groundwater Monitoring Semi-Annual Report prepared for Greenhill Concrete Products, LLC., Broken Arrow, Oklahoma.

Dear Ms. Chard-McClary,

Enclosed is one copy of the Second Semi Annual Monitoring Report for Greenhill Concrete Products, LLC. of Broken Arrow, Oklahoma, conducted in the second half of the year 2013. The report is a requirement as part of the Facilities Stormwater Discharge Permit.

If you have any questions, please call me at (918) 665-6575.

Sincerely,

Ty Ertugrul
Project Manager

Cc: Phil Rush

Enclosure: Analytical Report

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

November 15, 2013

Ty Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 665-6575
FAX (918) 665-6576

RE: Greenhill Concrete Order No.: 1311087

Dear Ty Ertugrul:

Green Country Testing, Inc. received 2 sample(s) on 11/7/2013 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

CC:
Gavin James

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

Lab ID: 1311087-001 **Collection Date:** 11/7/2013 1:40:00 PM

Client Sample ID: MW-1 **Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
RCRA METALS IN WATER				**E245.2**		Analyst: **KR**
MERCURY IN WATER, TOTAL						
Mercury	< 0.00010	0.00010		mg/L	1	11/8/2013 5:37:02 PM
RCRA METALS IN WATER				**E200.7**		Analyst: **KR**
METALS IN WATER BY ICP, TOTAL						
Arsenic	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Barium	0.0923	0.0100		mg/L	1	11/8/2013 8:04:39 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/8/2013 8:04:39 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/8/2013 8:04:39 PM
Lead	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Silver	< 0.00200	0.00200		mg/L	1	11/8/2013 8:04:39 PM
TPH DRO IN WATER				**OKDRO**		Analyst: **SM**
DIESEL RANGE ORGANICS IN WATER						
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/14/2013 2:35:00 PM
Surr: p-Terphenyl	37.0	5-183		%REC	1	11/14/2013 2:35:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/13/2013 11:01:00 AM
Surr: 4-Bromofluorobenzene	125	29.6-177		%REC	1	11/13/2013 11:01:00 AM
Surr: Trifluorotoluene	123	30.3-188		%REC	1	11/13/2013 11:01:00 AM
ALKALINITY IN WATER				**A2320B, 1997**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	456	2.50		mg/L	1	11/8/2013 2:15:00 PM
PH				**A4500-H+B, 1996**		Analyst: **PAB**
pH	6.92	0.100		pH Units	1	11/7/2013 5:30:00 PM
TOTAL DISSOLVED SOLIDS				**A2540C, 1997**		Analyst: **PAB**

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

TOTAL DISSOLVED SOLIDS			**A2540C, 1997**		Analyst: **PAB**
Total Dissolved Solids (Residue, Filterable)	485	10.0	mg/L	1	11/13/2013 8:30:00 AM
TOTAL SUSPENDED SOLIDS			**A2540D, 1997**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	66.0	5.00	mg/L	1	11/11/2013 10:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
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Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

Lab ID: 1311087-002 **Collection Date:** 11/7/2013 1:50:00 PM

Client Sample ID: MW-2 **Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
RCRA METALS IN WATER **MERCURY IN WATER, TOTAL**				**E245.2**		Analyst: **KR**
Mercury	< 0.00010	0.00010		mg/L	1	11/8/2013 5:37:02 PM
RCRA METALS IN WATER **METALS IN WATER BY ICP, TOTAL**				**E200.7**		Analyst: **KR**
Arsenic	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Barium	0.135	0.0100		mg/L	1	11/8/2013 8:10:15 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/8/2013 8:10:15 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/8/2013 8:10:15 PM
Lead	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Silver	< 0.00200	0.00200		mg/L	1	11/8/2013 8:10:15 PM
TPH DRO IN WATER **DIESEL RANGE ORGANICS IN WATER**				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/14/2013 2:35:00 PM
Surr: p-Terphenyl	40.8	5-183		%REC	1	11/14/2013 2:35:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/13/2013 11:01:00 AM
Surr: 4-Bromofluorobenzene	125	29.6-177		%REC	1	11/13/2013 11:01:00 AM
Surr: Trifluorotoluene	126	30.3-188		%REC	1	11/13/2013 11:01:00 AM
ALKALINITY IN WATER				**A2320B, 1997**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	198	2.50		mg/L	1	11/8/2013 2:15:00 PM
PH				**A4500-H+B, 1996**		Analyst: **PAB**
pH	7.10	0.100		pH Units	1	11/7/2013 5:30:00 PM
TOTAL DISSOLVED SOLIDS				**A2540C, 1997**		Analyst: **PAB**

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

TOTAL DISSOLVED SOLIDS			**A2540C, 1997**		Analyst: **PAB**
Total Dissolved Solids (Residue, Filterable)	342	10.0	mg/L	1	11/13/2013 8:30:00 AM
TOTAL SUSPENDED SOLIDS			**A2540D, 1997**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	15.0	5.00	mg/L	1	11/11/2013 10:10:00 AM

Qualifiers:					
	*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
	P	Second column confirmation exceeds	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete
TestNo: **A2320B, 1997**

Sample ID **MB-R9495**	SampType: **MBLK**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **PBW**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	< 2.50	2.50									

Sample ID **LCS-R9495**	SampType: **LCS**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **LCSW**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	98.0	2.50	100.0	0	98.0	80	120				

Sample ID **1311049-004ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **BatchQC**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	70.0	2.50						72.00	2.82	3.95	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A2540C, 1997**

Sample ID **MB-R9561**	SampType: **MBLK**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **PBW**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0									

Sample ID **LCS-R9561**	SampType: **LCS**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **LCSW**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	966	10.0	981.0	0	98.5	80	120				

Sample ID **1311095-001ADUP**	SampType: **DUP**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **BatchQC**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	174	10.0						176.0	1.14	4.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete
TestNo: **A2540D, 1997**

Sample ID **MB-R9516**	SampType: **MBLK**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **9516**
Client ID: **PBW**	Batch ID: **R9516**	TestNo: **A2540D, 1997**		Analysis Date: **11/11/2013**	SeqNo: **121205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	< 5.00	5.00									

Sample ID **LCS-R9516**	SampType: **LCS**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **9516**
Client ID: **LCSW**	Batch ID: **R9516**	TestNo: **A2540D, 1997**		Analysis Date: **11/11/2013**	SeqNo: **121206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	39.0	5.00	40.00	0	97.5	80	120				

Sample ID **1311095-001ADUP**	SampType: **DUP**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **9516**
Client ID: **BatchQC**	Batch ID: **R9516**	TestNo: **A2540D, 1997**		Analysis Date: **11/11/2013**	SeqNo: **121213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	75.0	5.00						73.00	2.70	5	

Sample ID **1311110-001ADUP**	SampType: **DUP**	TestCode: **TSS**	Units: **mg/L**	Prep Date:	RunNo: **9516**
Client ID: **BatchQC**	Batch ID: **R9516**	TestNo: **A2540D, 1997**		Analysis Date: **11/11/2013**	SeqNo: **121224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filterable)	32.0	5.00						32.00	0	5	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A4500-H+B, 1996**

Sample ID	**LCS-R9484**	SampType: **LCS**	TestCode: **PH**	Units: **pH Units**	Prep Date:	RunNo: **9484**
Client ID:	**LCSW**	Batch ID: **R9484**	TestNo: **A4500-H+B, 1**		Analysis Date: **11/7/2013**	SeqNo: **120943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.95	0.100	9.000	0	99.4	80	120				

Sample ID	**1311097-001ADUP**	SampType: **DUP**	TestCode: **PH**	Units: **pH Units**	Prep Date:	RunNo: **9484**
Client ID:	**BatchQC**	Batch ID: **R9484**	TestNo: **A4500-H+B, 1**		Analysis Date: **11/7/2013**	SeqNo: **120949**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.70	0.100						7.670	0.390	1.4	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **E200.7**

Sample ID **MB-2846**	SampType: **MBLK**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **PBW**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Barium	< 0.0100	0.0100									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									

Sample ID **LCS-2846**	SampType: **LCS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **LCSW**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.95	0.00500	2.000	0	97.5	85	115				
Barium	2.11	0.0100	2.000	0	105	85	115				
Cadmium	2.10	0.00100	2.000	0	105	85	115				
Chromium	2.02	0.0100	2.000	0	101	85	115				
Lead	2.05	0.00500	2.000	0	103	85	115				
Selenium	1.95	0.00500	2.000	0	97.6	85	115				
Silver	0.195	0.00200	0.2000	0	97.5	85	115				

Sample ID **1311040-001BMS**	SampType: **MS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.05	0.00500	2.000	0	103	89.3	112				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E200.7**

Sample ID	1311040-001BMS	SampType:	MS	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9506
Client ID:	BatchQC	Batch ID:	R9506	TestNo:	E200.7			Analysis Date:	11/8/2013	SeqNo:	121067

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.16	0.0100	2.000	0	108	92	110				
Cadmium	2.15	0.00100	2.000	0	107	92.5	113				
Chromium	2.05	0.0100	2.000	0	102	89.6	111				
Lead	1.98	0.00500	2.000	0	99.1	90.5	107				
Selenium	2.03	0.00500	2.000	0	101	90.2	110				
Silver	0.200	0.00200	0.2000	0	100	85.9	114				

Sample ID	1311040-001BMSD	SampType:	MSD	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9506
Client ID:	BatchQC	Batch ID:	R9506	TestNo:	E200.7			Analysis Date:	11/8/2013	SeqNo:	121068

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.05	0.00500	2.000	0	103	89.3	112	2.051	0.0488	4.08	
Barium	2.14	0.0100	2.000	0	107	92	110	2.164	1.02	5.05	
Cadmium	2.15	0.00100	2.000	0	107	92.5	113	2.146	0.0466	4.3	
Chromium	2.05	0.0100	2.000	0	102	89.6	111	2.047	0.0977	4.3	
Lead	1.99	0.00500	2.000	0	99.6	90.5	107	1.982	0.453	4.19	
Selenium	2.03	0.00500	2.000	0	102	90.2	110	2.027	0.246	4.34	
Silver	0.197	0.00200	0.2000	0	98.6	85.9	114	0.1999	1.41	5.23	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **E245.2**

Sample ID	MB-R9498	SampType:	MBLK	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	PBW	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121008		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		< 0.00010	0.00010										

Sample ID	LCS-R9498	SampType:	LCS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	LCSW	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121009		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		0.000997	0.000100	0.001000	0	99.7	85	115					

Sample ID	1311060-001CMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	BatchQC	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121011		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		0.00100	0.000100	0.001000	0	100	61.7	132					

Sample ID	1311060-001CMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	BatchQC	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121012		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		0.00102	0.000100	0.001000	0	102	61.7	132	0.001004	1.58	4.36		

Sample ID	1311087-002DMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498		
Client ID:	MW-2	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121017		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Mercury		0.000980	0.000100	0.001000	0	98.0	61.7	132					

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
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Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **E245.2**

Sample ID **1311087-002DMSD** SampType: **MSD** TestCode: **HG_WW** Units: **mg/L** Prep Date: **11/8/2013** RunNo: **9498**
Client ID: **MW-2** Batch ID: **R9498** TestNo: **E245.2** Analysis Date: **11/8/2013** SeqNo: **121018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000990	0.000100	0.001000	0	99.0	61.7	132	0.0009796	1.07	4.36	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **OKDRO**

Sample ID **MB-R9565**	SampType: **MBLK**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9565**
Client ID: **PBW**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	< 1.00	1.00									
Surr: p-Terphenyl	39.6		100.0		39.6	5	183				

Sample ID **LCS-R9565**	SampType: **LCS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9565**
Client ID: **LCSW**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	99.3	1.00	100.0	0	99.3	80	120				
Surr: p-Terphenyl	102		100.0		102	5	183				

Sample ID **1311087-001BMS**	SampType: **MS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **11/14/2013**	RunNo: **9565**
Client ID: **MW-1**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	75.8	1.00	100.0	0	75.8	80	120				S
Surr: p-Terphenyl	41.8		100.0		41.8	5	183				

Sample ID **1311087-001BMSD**	SampType: **MSD**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **11/14/2013**	RunNo: **9565**
Client ID: **MW-1**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**	SeqNo: **121638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	75.1	1.00	100.0	0	75.1	80	120	75.80	0.928	20	S
Surr: p-Terphenyl	40.9		100.0		40.9	5	183		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **OKGRO**

Sample ID **MB-R9545**	SampType: **MBLK**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **PBW**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	159		100.0		159	29.6	177				
Surr: Trifluorotoluene	126		100.0		126	30.3	188				

Sample ID **LCS-R9545**	SampType: **LCS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **LCSW**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	95.1	0.0500	100.0	0	95.1	80	120				
Surr: 4-Bromofluorobenzene	108		100.0		108	29.6	177				
Surr: Trifluorotoluene	96.7		100.0		96.7	30.3	188				

Sample ID **1311087-001AMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	97.9	0.0500	100.0	0	97.9	80	120				
Surr: 4-Bromofluorobenzene	126		100.0		126	29.6	177				
Surr: Trifluorotoluene	109		100.0		109	30.3	188				

Sample ID **1311087-001AMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	103	0.0500	100.0	0	103	80	120	97.90	5.08	18.8	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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Tulsa, OK 74145
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Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **OKGRO**

Sample ID **1311087-001AMSD** SampType: **MSD** TestCode: **TPHGRO_W** Units: **mg/L** Prep Date: RunNo: **9545**
Client ID: **MW-1** Batch ID: **R9545** TestNo: **OKGRO** Analysis Date: **11/13/2013** SeqNo: **121458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	129		100.0		129	29.6	177		0	0	
Surr: Trifluorotoluene	112		100.0		112	30.3	188		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

1311087

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING — ENVIRONMENTAL — CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4813
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
A & M Engineering	Ty Entugral	918-665-6575

PROJECT NUMBER	PROJECT NAME
Greenhill Concrete	Greenhill Concrete

SAMPLERS: (Signature) Jon Kuhn

ANALYTICAL TESTS REQUIRED

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH ? YES	RUSH ? NO	TPH DRO GRO	Alkalinity	pH	TDS / TSS	RCRA metals						REMARKS
	11/7/13	13:40			MW-1	Liq	5		X	X	X	X	X	X						
	11/7/13	13:50			MW-2	Liq	5		X	X	X	X	X	X						

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Jon Kuhn	11/7/13	14:16	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Rec'd on ice 15c

F2C4

Superior. Always.

December 3, 2013

Ms. Shelly Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

Re: Second Semi-Annual 2013 Groundwater Monitoring Report, Greenhill Concrete Products, Inc. (Formerly Arrow Concrete) Report, Facility ID I-72002620, OPDES Permit No. OK0045781.

Dear Ms. Chard-McClary :

Attached please find the semi-annual shallow groundwater monitoring report required by the referenced report. Unlike previous reports, however, this report includes analytical results for only two monitor wells; one upgradient and one downgradient.

At the time the original facility permit was issued to Arrow Concrete, Arrow was a division of Tulsa Dynaspan, Inc. and was located on property owned by Tulsa Dynaspan. Greenhill Concrete now owns a 14.43-acre tract on the west side of the original property owned by Tulsa Dynaspan and Tulsa Dynaspan will retain ownership of the remaining portion of the property.

Surface drainage from the Arrow Concrete and Tulsa Dynaspan properties originally flowed to Pond F03 and discharged offsite via a common discharge point . Pond F03 was closed in about 2010 which led to the installation of three (3) temporary monitoring wells around the former location of Pond F03. Temporary Monitor Well Nos. 1 and 2 are now located on property that Greenhill Concrete does not own but which it is required to monitor under its OPDES discharge permit. Temporary Monitor Well No. 3 was inadevertently destroyed during clearing operations to establish the new boundary between the properties.

I believe that, in fairness to both new property owners, the Water Quality Division needs to review the attached report, along with semi-annual reports previously submitted, and decide whether groundwater monitoring needs to continue and,if so, who is responsible. The current permit does not specify any particular concerns and I have been unable to identify any obvious groundwater violations in all of the monitoring reports I have reviewed for this property.

Since neither of the remaining temporary monitoring wells is located on Greenhill Concrete's property, we also need to know whether Greenhill's discharge permit will need to be

RECEIVED
DEC 09 2013
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com| www.superiorenviro.com

revised. Brandon Tyler of your staff is aware of this situation and I am also forwarding him a copy of this report.

Please feel free to contact me if you or your staff has any questions regarding this situation. If Water Quality Division needs to schedule a site review of the properties, I will be happy to arrange that.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

cc: Greenhill Concrete Products, Inc.
Brandon Tyler

GREENHILL CONCRETE PRODUCTS, LLC.
GROUNDWATER REPORT
SEMI-ANNUAL REPORT

FACILITY ID I-72002620
PERMIT No. OK0045781

NOVEMBER 2013

A & M PROJECT No. 2067-013

Prepared for:
Greenhill Concrete Products, LLC.
Broken Arrow, Oklahoma

Prepared by:

A & M Engineering and Environmental Services, Inc.
10010 East 16th Street
Tulsa, Oklahoma 74128-4813
Phone (918) 665-6575 and Fax (918) 665-6576
E-mail: aandmengineering.com

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.
10010 E. 16TH STREET
TULSA, OKLAHOMA 74128-4611
www.aandmengineering.com
ENGINEERING • ENVIRONMENTAL • CONSTRUCTION
(918) 665-6575 • FAX (918) 665-6576
EMAIL: aandm@aandmengineering.com

November 27, 2013

Shellie Chard-McClary
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RE: Groundwater Monitoring Semi-Annual Report prepared for Greenhill Concrete Products, LLC., Broken Arrow, Oklahoma.

Dear Ms. Chard-McClary,

Enclosed is one copy of the Second Semi Annual Monitoring Report for Greenhill Concrete Products, LLC. of Broken Arrow, Oklahoma, conducted in the second half of the year 2013. The report is a requirement as part of the Facilities Stormwater Discharge Permit.

If you have any questions, please call me at (918) 665-6575.

Sincerely,

Ty Ertugrul
Project Manager

Cc: Phil Rush

Enclosure: Analytical Report

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

November 15, 2013

Ty Ertugrul
A & M Engineering
10010 E. 16th St.
Tulsa, OK 74128-4813
TEL: (918) 665-6575
FAX (918) 665-6576

RE: Greenhill Concrete Order No.: 1311087

Dear Ty Ertugrul:

Green Country Testing, Inc. received 2 sample(s) on 11/7/2013 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

CC:
Gavin James

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

Lab ID: 1311087-001 **Collection Date:** 11/7/2013 1:40:00 PM

Client Sample ID: MW-1 **Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
RCRA METALS IN WATER **MERCURY IN WATER, TOTAL**				**E245.2**		Analyst: **KR**
Mercury	< 0.00010	0.00010		mg/L	1	11/8/2013 5:37:02 PM
RCRA METALS IN WATER **METALS IN WATER BY ICP, TOTAL**				**E200.7**		Analyst: **KR**
Arsenic	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Barium	0.0923	0.0100		mg/L	1	11/8/2013 8:04:39 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/8/2013 8:04:39 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/8/2013 8:04:39 PM
Lead	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/8/2013 8:04:39 PM
Silver	< 0.00200	0.00200		mg/L	1	11/8/2013 8:04:39 PM
TPH DRO IN WATER **DIESEL RANGE ORGANICS IN WATER**				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/14/2013 2:35:00 PM
Surr: p-Terphenyl	37.0	5-183		%REC	1	11/14/2013 2:35:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/13/2013 11:01:00 AM
Surr: 4-Bromofluorobenzene	125	29.6-177		%REC	1	11/13/2013 11:01:00 AM
Surr: Trifluorotoluene	123	30.3-188		%REC	1	11/13/2013 11:01:00 AM
ALKALINITY IN WATER				**A2320B, 1997**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	456	2.50		mg/L	1	11/8/2013 2:15:00 PM
PH				**A4500-H+B, 1996**		Analyst: **PAB**
pH	6.92	0.100		pH Units	1	11/7/2013 5:30:00 PM
TOTAL DISSOLVED SOLIDS				**A2540C, 1997**		Analyst: **PAB**

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

TOTAL DISSOLVED SOLIDS			**A2540C, 1997**		Analyst: **PAB**
Total Dissolved Solids (Residue, Filterable)	485	10.0	mg/L	1	11/13/2013 8:30:00 AM
TOTAL SUSPENDED SOLIDS			**A2540D, 1997**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	66.0	5.00	mg/L	1	11/11/2013 10:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Green Country TESTING

Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

Lab ID: 1311087-002 **Collection Date:** 11/7/2013 1:50:00 PM

Client Sample ID: MW-2 **Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
RCRA METALS IN WATER **MERCURY IN WATER, TOTAL**				**E245.2**		Analyst: **KR**
Mercury	< 0.00010	0.00010		mg/L	1	11/8/2013 5:37:02 PM
RCRA METALS IN WATER **METALS IN WATER BY ICP, TOTAL**				**E200.7**		Analyst: **KR**
Arsenic	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Barium	0.135	0.0100		mg/L	1	11/8/2013 8:10:15 PM
Cadmium	< 0.00100	0.00100		mg/L	1	11/8/2013 8:10:15 PM
Chromium	< 0.0100	0.0100		mg/L	1	11/8/2013 8:10:15 PM
Lead	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Selenium	< 0.00500	0.00500		mg/L	1	11/8/2013 8:10:15 PM
Silver	< 0.00200	0.00200		mg/L	1	11/8/2013 8:10:15 PM
TPH DRO IN WATER **DIESEL RANGE ORGANICS IN WATER**				**OKDRO**		Analyst: **SM**
TPH (Diesel)	< 1.00	1.00		mg/L	1	11/14/2013 2:35:00 PM
Surr: p-Terphenyl	40.8	5-183		%REC	1	11/14/2013 2:35:00 PM
GASOLINE RANGE ORGANICS IN WATER				**OKGRO**		Analyst: **SM**
TPH (Gasoline)	< 0.0500	0.0500		mg/L	1	11/13/2013 11:01:00 AM
Surr: 4-Bromofluorobenzene	125	29.6-177		%REC	1	11/13/2013 11:01:00 AM
Surr: Trifluorotoluene	126	30.3-188		%REC	1	11/13/2013 11:01:00 AM
ALKALINITY IN WATER				**A2320B, 1997**		Analyst: **MP**
Alkalinity, Total (As CaCO3)	198	2.50		mg/L	1	11/8/2013 2:15:00 PM
PH				**A4500-H+B, 1996**		Analyst: **PAB**
pH	7.10	0.100		pH Units	1	11/7/2013 5:30:00 PM
TOTAL DISSOLVED SOLIDS				**A2540C, 1997**		Analyst: **PAB**

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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Analytical Report

(continuous)

WO#: **1311087**

Date Reported: **11/15/2013**

CLIENT: A & M Engineering **Lab Order:** 1311087

Project: Greenhill Concrete

TOTAL DISSOLVED SOLIDS			**A2540C, 1997**		Analyst: **PAB**
Total Dissolved Solids (Residue, Filterable)	342	10.0	mg/L	1	11/13/2013 8:30:00 AM
TOTAL SUSPENDED SOLIDS			**A2540D, 1997**		Analyst: **PAB**
Suspended Solids (Residue, Non-Filterable)	15.0	5.00	mg/L	1	11/11/2013 10:10:00 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete
TestNo: **A2320B, 1997**

Sample ID **MB-R9495**	SampType: **MBLK**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **PBW**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	< 2.50	2.50									

Sample ID **LCS-R9495**	SampType: **LCS**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **LCSW**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	98.0	2.50	100.0	0	98.0	80	120				

Sample ID **1311049-004ADUP**	SampType: **DUP**	TestCode: **ALK**	Units: **mg/L**	Prep Date:	RunNo: **9495**
Client ID: **BatchQC**	Batch ID: **R9495**	TestNo: **A2320B, 1997**		Analysis Date: **11/8/2013**	SeqNo: **120990**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	70.0	2.50						72.00	2.82	3.95	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A2540C, 1997**

Sample ID **MB-R9561**	SampType: **MBLK**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **PBW**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	< 10.0	10.0									

Sample ID **LCS-R9561**	SampType: **LCS**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **LCSW**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	966	10.0	981.0	0	98.5	80	120				

Sample ID **1311095-001ADUP**	SampType: **DUP**	TestCode: **TDS**	Units: **mg/L**	Prep Date:	RunNo: **9561**
Client ID: **BatchQC**	Batch ID: **R9561**	TestNo: **A2540C, 1997**		Analysis Date: **11/13/2013**	SeqNo: **121617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterable)	174	10.0						176.0	1.14	4.2	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **A2540D, 1997**

Sample ID	MB-R9516	SampType:	MBLK	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	PBW	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121205		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		< 5.00	5.00										

Sample ID	LCS-R9516	SampType:	LCS	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	LCSW	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121206		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		39.0	5.00	40.00	0	97.5	80	120					

Sample ID	1311095-001ADUP	SampType:	DUP	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	BatchQC	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121213		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		75.0	5.00						73.00	2.70	5		

Sample ID	1311110-001ADUP	SampType:	DUP	TestCode:	TSS	Units:	mg/L	Prep Date:		RunNo:	9516		
Client ID:	BatchQC	Batch ID:	R9516	TestNo:	A2540D, 1997			Analysis Date:	11/11/2013	SeqNo:	121224		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Suspended Solids (Residue, Non-Filterable)		32.0	5.00						32.00	0	5		

Qualifiers:

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M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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QC SUMMARY REPORT

WO#: 1311087

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: A4500-H+B, 1996

Sample ID	LCS-R9484	SampType:	LCS	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	9484		
Client ID:	LCSW	Batch ID:	R9484	TestNo:	A4500-H+B, 1			Analysis Date:	11/7/2013	SeqNo:	120943		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
pH	8.95	0.100	9.000	0	99.4	80	120						

Sample ID	1311097-001ADUP	SampType:	DUP	TestCode:	PH	Units:	pH Units	Prep Date:		RunNo:	9484		
Client ID:	BatchQC	Batch ID:	R9484	TestNo:	A4500-H+B, 1			Analysis Date:	11/7/2013	SeqNo:	120949		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
pH	7.70	0.100						7.670	0.390	1.4			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **E200.7**

Sample ID **MB-2846**	SampType: **MBLK**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **PBW**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Barium	< 0.0100	0.0100									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									

Sample ID **LCS-2846**	SampType: **LCS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **LCSW**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.95	0.00500	2.000	0	97.5	85	115				
Barium	2.11	0.0100	2.000	0	105	85	115				
Cadmium	2.10	0.00100	2.000	0	105	85	115				
Chromium	2.02	0.0100	2.000	0	101	85	115				
Lead	2.05	0.00500	2.000	0	103	85	115				
Selenium	1.95	0.00500	2.000	0	97.6	85	115				
Silver	0.195	0.00200	0.2000	0	97.5	85	115				

Sample ID **1311040-001BMS**	SampType: **MS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.05	0.00500	2.000	0	103	89.3	112				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E200.7**

Sample ID **1311040-001BMS**	SampType: **MS**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.16	0.0100	2.000	0	108	92	110				
Cadmium	2.15	0.00100	2.000	0	107	92.5	113				
Chromium	2.05	0.0100	2.000	0	102	89.6	111				
Lead	1.98	0.00500	2.000	0	99.1	90.5	107				
Selenium	2.03	0.00500	2.000	0	101	90.2	110				
Silver	0.200	0.00200	0.2000	0	100	85.9	114				

Sample ID **1311040-001BMSD**	SampType: **MSD**	TestCode: **MET_WW_T**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9506**
Client ID: **BatchQC**	Batch ID: **R9506**	TestNo: **E200.7**		Analysis Date: **11/8/2013**	SeqNo: **121068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.05	0.00500	2.000	0	103	89.3	112	2.051	0.0488	4.08	
Barium	2.14	0.0100	2.000	0	107	92	110	2.164	1.02	5.05	
Cadmium	2.15	0.00100	2.000	0	107	92.5	113	2.146	0.0466	4.3	
Chromium	2.05	0.0100	2.000	0	102	89.6	111	2.047	0.0977	4.3	
Lead	1.99	0.00500	2.000	0	99.6	90.5	107	1.982	0.453	4.19	
Selenium	2.03	0.00500	2.000	0	102	90.2	110	2.027	0.246	4.34	
Silver	0.197	0.00200	0.2000	0	98.6	85.9	114	0.1999	1.41	5.23	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Mininum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete
TestNo: **E245.2**

Sample ID **MB-R9498**	SampType: **MBLK**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9498**
Client ID: **PBW**	Batch ID: **R9498**	TestNo: **E245.2**		Analysis Date: **11/8/2013**	SeqNo: **121008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00010	0.00010									

Sample ID **LCS-R9498**	SampType: **LCS**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9498**
Client ID: **LCSW**	Batch ID: **R9498**	TestNo: **E245.2**		Analysis Date: **11/8/2013**	SeqNo: **121009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000997	0.000100	0.001000	0	99.7	85	115				

Sample ID **1311060-001CMS**	SampType: **MS**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9498**
Client ID: **BatchQC**	Batch ID: **R9498**	TestNo: **E245.2**		Analysis Date: **11/8/2013**	SeqNo: **121011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00100	0.000100	0.001000	0	100	61.7	132				

Sample ID **1311060-001CMSD**	SampType: **MSD**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9498**
Client ID: **BatchQC**	Batch ID: **R9498**	TestNo: **E245.2**		Analysis Date: **11/8/2013**	SeqNo: **121012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00102	0.000100	0.001000	0	102	61.7	132	0.001004	1.58	4.36	

Sample ID **1311087-002DMS**	SampType: **MS**	TestCode: **HG_WW**	Units: **mg/L**	Prep Date: **11/8/2013**	RunNo: **9498**
Client ID: **MW-2**	Batch ID: **R9498**	TestNo: **E245.2**		Analysis Date: **11/8/2013**	SeqNo: **121017**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000980	0.000100	0.001000	0	98.0	61.7	132				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **E245.2**

Sample ID	1311087-002DMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/8/2013	RunNo:	9498
Client ID:	MW-2	Batch ID:	R9498	TestNo:	E245.2			Analysis Date:	11/8/2013	SeqNo:	121018

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000990	0.000100	0.001000	0	99.0	61.7	132	0.0009796	1.07	4.36	

Quallfiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**

15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete

TestNo: **OKDRO**

Sample ID **MB-R9565**	SampType: **MBLK**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:		RunNo: **9565**				
Client ID: **PBW**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**		SeqNo: **121634**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	< 1.00	1.00									
Surr: p-Terphenyl	39.6		100.0		39.6	5	183				

Sample ID **LCS-R9565**	SampType: **LCS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date:		RunNo: **9565**				
Client ID: **LCSW**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**		SeqNo: **121635**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	99.3	1.00	100.0	0	99.3	80	120				
Surr: p-Terphenyl	102		100.0		102	5	183				

Sample ID **1311087-001BMS**	SampType: **MS**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **11/14/2013**		RunNo: **9565**				
Client ID: **MW-1**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**		SeqNo: **121637**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	75.8	1.00	100.0	0	75.8	80	120				S
Surr: p-Terphenyl	41.8		100.0		41.8	5	183				

Sample ID **1311087-001BMSD**	SampType: **MSD**	TestCode: **TPHDRO_W**	Units: **mg/L**	Prep Date: **11/14/2013**		RunNo: **9565**				
Client ID: **MW-1**	Batch ID: **R9565**	TestNo: **OKDRO**		Analysis Date: **11/14/2013**		SeqNo: **121638**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Diesel)	75.1	1.00	100.0	0	75.1	80	120	75.80	0.928	20	S
Surr: p-Terphenyl	40.9		100.0		40.9	5	183		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

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Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **OKGRO**

Sample ID **MB-R9545**	SampType: **MBLK**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **PBW**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	< 0.0500	0.0500									
Surr: 4-Bromofluorobenzene	159		100.0		159	29.6	177				
Surr: Trifluorotoluene	126		100.0		126	30.3	188				

Sample ID **LCS-R9545**	SampType: **LCS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **LCSW**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	95.1	0.0500	100.0	0	95.1	80	120				
Surr: 4-Bromofluorobenzene	108		100.0		108	29.6	177				
Surr: Trifluorotoluene	96.7		100.0		96.7	30.3	188				

Sample ID **1311087-001AMS**	SampType: **MS**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	97.9	0.0500	100.0	0	97.9	80	120				
Surr: 4-Bromofluorobenzene	126		100.0		126	29.6	177				
Surr: Trifluorotoluene	109		100.0		109	30.3	188				

Sample ID **1311087-001AMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPH (Gasoline)	103	0.0500	100.0	0	103	80	120	97.90	5.08	18.8	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311087**
15-Nov-13

Client: A & M Engineering
Project: Greenhill Concrete **TestNo:** **OKGRO**

Sample ID **1311087-001AMSD**	SampType: **MSD**	TestCode: **TPHGRO_W**	Units: **mg/L**	Prep Date:	RunNo: **9545**
Client ID: **MW-1**	Batch ID: **R9545**	TestNo: **OKGRO**		Analysis Date: **11/13/2013**	SeqNo: **121458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	129		100.0		129	29.6	177		0	0	
Surr: Trifluorotoluene	112		100.0		112	30.3	188		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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1311087

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING — ENVIRONMENTAL — CONSTRUCTION

10010 E. 16th Street - TULSA, OKLAHOMA 74128-4813
TEL: (918)665-6575 FAX: (918)665-6576 E-Mail: aandm@aandmengineering.com

SAMPLING FIRM	CLIENT CONTACT	PHONE NUMBER
A & M Engineering	Ty Ertugrul	918-665-6575

PROJECT NUMBER	PROJECT NAME
Greenhill Concrete	Greenhill Concrete

SAMPLERS: (Signature) Jon Kuhn

ANALYTICAL TESTS REQUIRED

STA. NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	MATRIX	NO. OF CONTAINERS	RUSH ? YES	RUSH ? NO	TPH DRO GRO	Alkalinity	pH	TDS / TSS	RCRA metals							REMARKS
	11/7/13	13:40			MW-1	Liq	5		X	X	X	X	X	X							
	11/7/13	13:50			MW-2	Liq	5		X	X	X	X	X	X							

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Jon Kuhn	11/7/13	14:16	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

REMARKS: Rec'd on ice 15c

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

January 29, 2014

Matt Ritchie, Materials Manager
Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

RE: ODEQ Permit No. OKG11T212
Greenhill Concrete Products, Inc., Rogers County, Oklahoma
Facility ID No. I-72002740

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) waste disposal permit was received by this office on November 4, 2013. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be administratively complete.

Please note that additional information may be requested at a later date to clarify, modify, or supplement information already provided in this application. Requests for such additional information will not render your application incomplete.

Thank you for your cooperation. Should you have any questions concerning this submittal or the permitting procedures, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Brandon Tyler
Industrial Permits Section
Water Quality Division

BT/ab SG

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

February 11, 2014

Matt Ritchie, Materials Manager
Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

RE: DEQ Application No. OKG11T212
Greenhill Concrete Products, Inc., Rogers County, Oklahoma
Facility ID No. I-72002740

Dear Mr. Ritchie:

Your Authorization to treat and dispose of wastewater under OPDES General Permit No. OKG11T is enclosed. The effective date and the expiration date of this Authorization appears on the cover page.

Should you have any questions regarding the Authorization, please contact the Industrial Permits Section at the letterhead address or telephone (405) 702-8100. Should you have any questions regarding compliance with the conditions of this Authorization, please contact the Industrial Enforcement Section at the same address and phone number.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

BT/ab DM/SLT/AR

Enclosure

printed on recycled paper with soy ink

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR DISCHARGE AND/OR DISPOSAL
UNDER GENERAL PERMIT NO. OKG11

AUTHORIZATION NO.: OKG11T212
FACILITY ID NO.: I-72002740

In compliance with Title 27A O.S. §2-6-201 *et seq.*, as amended (the OPDES Act), the Rules of the Department of Environmental Quality promulgated thereunder, and in reliance on the certified statements and representations heretofore made in its application,

Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

is hereby authorized to dispose of process wastewater and discharge non-contact stormwater runoff associated with the following activities: (1) mix plant area washdown, (2) truck mixer drum washout and (3) external truck wash and oil spray down, and associated stormwater runoff from their facility located at:

NW¼, Section 10, Township 20N, Range 14EIM
Rogers County, Oklahoma
or at 5411 N. 145th East Ave., Catoosa, OK 74015

The wastewater consists of truck mixer drum washout and stormwater from the plant area and is classified as Class III wastewater in accordance with OAC 252:616-1-2.

The above-referenced facility is also authorized to dispose of wastewater in one flow-through impoundment (F02) and one total retention surface impoundment (T01), as described in the Appendix. Surface impoundments shall be maintained in accordance with conditions set forth in the Concrete Batch Plant General Permit No. OKG11 and in Parts I, II, III, and the Appendix of this Authorization.

Discharge of wastewater contained in the authorized surface impoundment(s) to the waters of the state is specifically prohibited.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and DEQ Rules.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This Authorization replaces and/or supersedes OPDES Permit No. OKG11T212 that became effective on September 7, 2012.

This Authorization shall become effective on March 1, 2014.

This Authorization shall expire at midnight, on February 28, 2019.

This is to certify that the proposed wastewater treatment and disposal systems described in this Authorization meet the requirements of the Oklahoma Water Quality Standards, as amended, and the DEQ Rules.

Issued this 11 day of February, 2014.

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

PART I
EFFLUENT LIMITATIONS, MONITORING AND OTHER REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Not applicable since discharge to waters of the state is prohibited.

SECTION B. HOUSEKEEPING PROGRAM REQUIREMENTS

Where the DEQ has determined that the facility has established a strong housekeeping program to maintain a clean plant site and has segregated process wastewaters from plant area stormwater, the plant area stormwater may be covered under Part I, Section H of the Concrete Batch Plant General Permit or Part I, Section C of this Authorization. **If this determination has been made by the DEQ, it will be noted in this Authorization.** The following conditions shall apply to all permittees for the establishment of a strong housekeeping program:

1. The area under and around the mix plant shall be kept clean of solids and other contaminants on a daily basis.
2. Solids and other contaminants that may accumulate on the ground under the mix plant and surrounding area shall be picked up by dry methods such as sweeping, shoveling, etc., or may be washed down to a process wastewater impoundment for treatment and containment.
3. Based on information provided by the applicant, the DEQ has determined that this facility has (has not) established a strong housekeeping program.

SECTION C. STORMWATER MONITORING REQUIREMENTS

1. Monitoring Requirements

   All facilities, without exception, will be subject to visual monitoring.

   a. Quarterly Visual Monitoring

      The requirements and procedures for quarterly visual monitoring are applicable to all facilities covered under this General Permit.

      - The Permittee must perform and document a quarterly visual examination of a stormwater discharge associated with industrial activity from each outfall, except discharges exempted below. The visual examination must be made during daylight hours (e.g., normal working hours). If no storm event resulted in runoff from the facility during a monitoring quarter, the permittee is excused from visual monitoring for that quarter provided the permittee documents in the monitoring records that no runoff occurred. An authorized representative of the facility must sign and certify the documentation.

      - The visual examinations must be made of samples collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed 1 hour) of when the runoff or snowmelt begins discharging from the facility. The examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution. The examination must be conducted in a well-lighted area. No analytical tests are required to be performed on the samples. All such samples must be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where practicable, the same individual should carry out the collection and examination of discharges for the entire Authorization term.

The following Table is an example of what the permittee should look for in a visual monitoring sample.

Visual Monitoring		
Parameter	Method	Results
Color and Extent	Visual	Clear, yellow, red, blue, green, brown, black, milky, etc.
Odor	Smell	None, earthy, sewage, musky, rotten eggs, petroleum, etc.
Clarity or Turbidity	Develop a test such as, clean off the label from a 2 liter clear plastic bottle, fill with the sample, and try to see things through it.	1) can't see through the bottle 2) can see through but could not read newsprint 3) can see through and can read newsprint 4) pretty clear, but not as clear as bottled water 5) as clear as bottled water
Floating solids	Visual	Yes/no - describe what they are.
Settled solids	Use same 2 liter bottle	Tablespoons or cups of material or millimeters of solids on bottom after 24 hours
Suspended solids	Look through the container.	What do you see?
Foam	Visual	Yes/no - how thick is the foam? How much of the surface does it cover? What color is the foam?
Oil sheen	Visual	Color and extent
Other obvious indicators of stormwater pollution	Indicate what was observed that would lead a reasonable person to believe that the stormwater was polluted.	Tell it like you see it.

- The Permittee must maintain the visual examination reports onsite with the Storm Water Pollution Prevention Plan (SWP3). The report must include the examination date and time, examination location, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the stormwater discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution), and probable sources of any observed stormwater contamination. If applicable, the report shall include why it was not possible to take samples within the first 30 minutes.

- Inactive and unstaffed sites: When the facility is unable to conduct visual stormwater examinations at an inactive and un-staffed site, the facility may exercise a waiver of the monitoring requirement as long as the facility remains inactive and un-staffed. If the waiver is exercised, the Permittee must maintain a certification with the pollution prevention plan stating that the site is inactive and unstaffed and that performing visual examinations during a qualifying event is not feasible. An authorized representative of the facility must sign and certify the waiver.

2. Stormwater Reporting Requirements

   Visual monitoring results must be retained with the SWP3. Do not submit to the DEQ unless requested to do so by the Executive Director.

3. Annual Comprehensive Site Compliance Evaluation Reporting Requirement

   An Annual Comprehensive Site Compliance Evaluation Report using DEQ Form 605-006 must be filed each year by each facility covered by this Authorization. The report must be filed by April 1st of each year.

   The report must include a certification signed and dated by an authorized representative of the facility that states the following:

   I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SECTION D. SURFACE IMPOUNDMENTS

The use of surface impoundments for treatment and/or disposal of process wastewater at concrete batch and pre-cast concrete product plants are authorized by the General Permit, subject to additional State requirements as specified below in accordance with OAC 252:616.

1. Construction Requirements

   Impoundments F02 and T01 shall be constructed in accordance with OAC 252:616-7 and maintained in accordance with OAC 252:616-7-1.

2. Wastewater Classification

   The process wastewater generated from routine operations of concrete batch and pre-cast concrete product plants is classified as Class III wastewater in accordance with OAC 252:616-1-2.

3. Liner Requirements

   Surface impoundment F02 has a concrete liner. Surface impoundment T01 has natural limestone liner. Since the wastewater being retained is Class III, it is the Best Professional Judgment (BPJ) of the permit writer that the concrete liner and limestone liner are appropriate and compatible liner systems in accordance with OAC 252:616-7.

4. Specific Requirements

   a. Wastewater contained in surface impoundments may be recycled for use in product, dust suppression, stockpile watering or wash water.

   b. At such time as surface impoundments are to be permanently taken out of service or at such time as the contents of surface impoundments pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.

c. In all other respects, surface impoundments shall be subject to standard conditions for surface impoundments contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring and closure.

5. Freeboard Requirements

A minimum freeboard of two (2) feet shall be maintained on all flow-through surface impoundments and all surface impoundments that are equipped to transfer process wastewater to a permitted outfall, other permitted surface impoundments, recycle/reuse system or a land application system. However, a minimum freeboard of one (1) foot shall be maintained on all flow-through surface impoundments constructed with a concrete liner in accordance with OAC 252:616-7. Impoundment F02 shall maintain one (1) foot of freeboard.

A minimum freeboard of three (3) feet shall be maintained on all total retention surface impoundments that are not equipped to transfer process wastewater to a permitted outfall, other permitted surface impoundments, recycle/reuse system or a land application system. However, a minimum freeboard of two (2) feet shall be maintained on all total retention surface impoundments constructed with a concrete liner in accordance with OAC 252:616-7. Impoundment T01 shall maintain three (3) feet of freeboard.

6. Depth to Groundwater

Surface impoundments as required by OAC 252:616-7-1(4) are required to be located such that the base of the liner is at least fifteen (15) feet above historic maximum groundwater table. Since the wastewater from the activities covered by this general permit is classified as Class III, this requirement may be waived in accordance with OAC 252:616-7-1(4)(B). However, at no location shall the bottom of a surface impoundment be equal to or below the highest seasonal groundwater elevation. According to the application submitted by the facility, the groundwater in this area is at a depth of approximately 90 feet. Therefore, the separation distance has been met.

SECTION E. TANK SYSTEMS

The use of underground tank systems to manage process wastewater for treatment and/or disposal of process wastewater at concrete batch plants and pre-cast concrete product facilities is authorized by the General Permit, subject to additional requirements as specified below in accordance with OAC 252:616.

1. Authorized Use of Tank Systems (OAC 252:616-9-1)

   The use of tank systems for all wastewater classifications is authorized as follows:

   a. Tank systems without lateral lines can be used for the treatment of Class I, II, III, and V wastewater.

2. Tank System Materials (OAC 252:616-9-2)

   Tank systems may be constructed of concrete, metal, plastic, or fiberglass in accordance with OAC 252:616-9-2.

3. Tank System Requirements (OAC 252:616-9-3)

   Tank systems must be constructed in accordance with OAC 252:616-9-3.

SECTION F. LAND APPLICATION AND BENEFICIAL REUSE OF PROCESS WASTEWATER

Land application of process wastewater for dust suppression and/or reuse of process wastewater for construction or stabilization at concrete batch plants and pre-cast concrete product facilities are authorized by the General Permit, and are subject to the requirements as specified below and in this Authorization, in accordance with OAC 252:616-11.

1. Process wastewater that is reused or land applied for dust suppression must be classified as Class III wastewater in accordance with OAC 252:616-1-2.

2. Process wastewater to be land applied for dust suppression shall be free of a visible sheen of oil or globules of oil or grease.

3. The process wastewater to be land applied for dust suppression shall be visually inspected prior to land application.

4. Process wastewater that is recycled back into the concrete mixture is exempt from monitoring requirements.

5. There shall be no land application of process wastewater for dust suppression in areas where the depth to the maximum seasonal groundwater level is less than two (2) feet in accordance with OAC 252:616-5-1(b)(2)(E).

6. There shall be no land application of process wastewater for dust suppression during periods of precipitation or when soil is saturated or frozen.

7. There shall be no runoff of process wastewater used for dust suppression.

SECTION G. RECYCLABLE CONCRETE MATERIAL AND DISPOSAL OF OTHER SOLIDS

Recyclable concrete material recovered from the scatter pile, impoundments and/or other means may be removed from the facility and may also be used by the applicant at the permitted facility at any time. No records are required.

PART II
OTHER PERMIT CONDITIONS AND REQUIREMENTS

1. This Authorization does not convey any exclusive privileges or authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations nor does it obviate the requirement to obtain permission from any landowners whose property will be affected by this Authorization.

2. Detergents used for truck washing should be low-phosphate, low-sudsing and biodegradable.

3. Laws and Rules Applicable

   The DEQ Rules, as amended, are applicable to and are incorporated by reference into the Concrete Batch Plant General Permit and any Authorizations under it. The permittee is hereby given notice that this Authorization is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and all amendments of the laws of the State of Oklahoma, the Department of Environmental Quality Rules, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit to any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit of the permittee. By DEQ approval, grant, and issuance of this Authorization, permittee acknowledges responsibility to obtain correct and current copies of applicable DEQ Rules (as amended), provided, however, that permittee further acknowledges that any and all amendments thereto shall become a part of this Authorization.

APPENDIX

Description of Wastewater Treatment/Disposal Surface Impoundments

Classification OAC 252:616-1-2		Liner Description	Holding Capacity and/or Dimensions OAC 252:616-7-1(6) [b]	Wastewater Destination
ID [a]	Wastewater Description			
F02	Wastewater generated from truck mixer drum washout and stormwater -- Class III	Concrete	59,441 gallons 33' x 59' Sloped to a maximum depth of 8'.	T01
T01	Wastewater generated from truck mixer drum washout and stormwater -- Class III	Limestone Bedrock	~4,300,000 gallons 172' x 200' x 20'	Total Retention and Recycle

[a] Designation T refers to total retention surface impoundment.
Designation F refers to flow-through surface impoundment.

[b] Based on information provided in application. Freeboard requirements in Part I.D.5 must be met.

Location of Surface Impoundments

ID	Legal Location Description	General Location and Description
F01	SW¼, NE¼, NW¼, Section 10, Township 20N, Range 14EIM, Rogers County, Oklahoma	Southeast of office, South of the batch plant
T01	SE¼, NE¼, NW¼, Section 10, Township 20N, Range 14EIM, Rogers County, Oklahoma	South of office, Southwest of the batch plant

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002740 | Permit No. OKG11T212 | County Rogers/Tulsa | SIC
Sherwood Construction Co. (Name of Facility) | 5411 N. 145th East Ave (Address) | Owasso (City) | 74055 (Zip)
Greenhill Concrete Products, Inc (Name of Owner) | PO Box 10 (Address) | Catoosa (City) | 74015 (Zip)
Phil Rush (Name of Contact) | Operations Manager (Position) | (918) 272-3999 (Telephone)
Randy Beason, Superior Env Compliance – Contractor

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		Unpermitted impoundments have been removed
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03		
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12	X	(12) Sign still needs to be updated w/Current permit #
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: ____ Contract laboratory ____ Facility; Samples analyzed by: ____ Contract laboratory ____ Facility	*13		
Total Retention Facility	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Plans to put in concrete approach to FO1 & FO2 in ~30 days

SWP3 Developed - Complete records on file for 2013 – 2013 ACSCER has been prepared
2012 - Need 4th Quarter inspection form + ACSCER
Annual Training records for 2013, 2012

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Carrie Gleason — Environmental Specialist — Employee ID# ____
Phil Rush — Copy received by — Operations Mgr. — Title

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: 3/19/2014 (date)
37 : Refer to WQD

Date: 2 / 19 / 2014

Total number of items marked: 1

Number of critical items marked: 0

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : DI Discharging Lagoon (min)

DEQ FORM # 616-530B (Rev. 10/2005)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

March 17, 2014

CERTIFIED MAIL

Matt Richie, Vice President
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, LLC – Broken Arrow
P.O. Box 10
Catoosa, Oklahoma 74015

RE: OPDES Permit Modification Application, Permit No. OK0045781
Sherwood Construction Company, Inc. dba Greenhill Concrete Product, LLC
Tulsa County, Oklahoma
Facility ID No. I-72002620

NOTICE OF DEFICIENCY

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to discharge wastewater was received by this office on January 8, 2014, and was determined to be complete on February 21, 2014. During the Technical Review of your application, it has been determined that a current analysis of your wastewater in surface impoundments F05 and F06 is needed along with an Affidavit of No Discharge for Outfall 001. If you have an analysis that is less than six months old, you may submit it. Please submit the analysis for the following parameters:

Wastewater

- Alkalinity, total
- Chemical oxygen demand
- Oil and grease, total
- Total suspended solids
- pH

Please submit the requested information by April 17, 2014. The permit application technical review process is hereby suspended pending receipt of the requested information. Please note that additional information may be requested at a later date to clarify, modify, or supplement information already provided in this application. Requests for such additional information will not render your application incomplete.

Thank you for your cooperation. If you have any questions concerning this submittal or DEQ permit procedures, please contact Brandon Tyler at 405-702-8215.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/BT/ab DM

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AFFIDAVIT OF NO DISCHARGE

This form applies to the following types of facilities:

1. Wastewater treatment facilities
   a. Total retention by evaporation
   b. Total retention by an approved Land Application Program
2. Water Plants that treat backwash water by re-cycling or evaporation lagoons.
3. Swimming Pools that treat wastewater by evaporation in total retention lagoons.
4. Dairy farm wastewater treatment facilities.
5. Abandoned wastewater facilities.

_____
(CF Number)
OK00_____
(NPDES No. if Applicable)

1. FACILITY NAME: _____

2. FACILITY ADDRESS: _____

3. FACILITY COUNTY: _____ LEGAL (¼ ¼ ¼ Sec., T, R) _____

4. OWNER NAME AND ADDRESS: _____

5. CONTACT PERSON: _____ PHONE: _____ TITLE: _____

6. MAILING ADDRESS: _____

7. TYPE OF FACILITY: WASTEWATER PLANT ( ) WATER PLANT ( ) SWIM. POOL ( ) DAIRY FARM ( ) OTHER ( )

8. TYPE OF TREATMENT: EVAPORATION ( ) LAND APPLICATION ( ) OTHER ( )

9. THIS FACILITY IS: PUBLICLY OWNED ( ) PRIVATELY OWNED ( )

10. THIS FACILITY WAS DESIGNED AS A:

    ( ) TOTAL RETENTION FACILITY WITH NO OUTFALL STRUCTURE SUCH AS AN OUTFALL BOX OR SLUICE GATE
    ( ) DISCHARGING FACILITY

11. HAS THIS FACILITY EVER HAD AN OPDES PERMIT TO DISCHARGE OR HAS THERE BEEN APPLICATION MADE FOR A PERMIT?
    YES ( ) NPDES NO OK00_____ NO ( )

12. HAS THIS FACILITY EVER HAD AN OUTFALL BOX OR SLUICE GATE THAT COULD RESULT IN A WASTEWATER DISCHARGE? YES ( ) NO ( )
    IF YES TO 12., GIVE A BRIEF EXPLANATION OF ANY CONSTRUCTION OR REUSE OF THE WASTEWATER THAT HAS RESULTED IN A CHANGE OF DISCHARGE STATUS _____

13. DOES THE SWIMMING POOL, MOBILE HOME PARK, DAIRY FARM, ETC. CONTINUE TO GENERATE WASTEWATER ? YES ( ) NO ( )
    IF YES TO 13., ARE THERE HOLDING PONDS AND/OR A LIFT STATION AT THE SITE? YES ( ) NO ( )

    WHERE IS THE WASTEWATER TREATED? _____
    ( ) TOTAL RETENTION FACILITY
    ( ) DISCHARGING FACILITY – NPDES NUMBER OK00_____

    IF NO TO 13., HAS THE FACILITY OR ENTITY GENERATING THE WASTEWATER BEEN ABANDONED ? YES ( ) NO ( )

I, (Name) _____, (Title) _____ CERTIFY THAT THE ABOVE INFORMATION IS CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT THE (Facility) _____ DOES NOT DISCHARGE WASTEWATER TO ANY WATERS OF THE STATE NOR DOES IT DISCHARGE TO ANY DITCH OR LAND AREA THAT COULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. I CERTIFY THAT IN THE EVENT OF A HYDRAULIC LOAD INCREASE OR OTHER FACTORS OCCUR THAT WILL CAUS E THE FACILITY TO DISCHARGE WASTEWATER, AN APPLICATION FOR A PERMIT TO DISCHARGE WILL BE EXECUTED AT LEAST 180 DAYS PRIOR TO AN EXPECTED DISCHARGE. I UNDERSTAND THAT ALL UNEXPECTED UNPERMITTED DISCHARGES MUST BE REPORTED TO THE APPROPRIATE AGENCIES IMMEDIATELY.
I REQUEST THAT THE NPDES PERMIT/APPLICATION NUMBER OK00_____ BE DISCONTINUED.

APPLICANT REPRESENTATIVE : _____ TITLE : _____

Subscribed and sworn to before me this _____ day of _____, 19 _____.

NOTARY PUBLIC : _____ My commission expires: _____

Confirmed by Environmental Specialist: _____ R.S. NO. _____ DATE: _____

Oklahoma Department of Environmental Quality – 707 N. Robinson St., P. O. Box 1677, Oklahoma City, OK 73101-1677

DEQ Form No. 530 E (9-98)

DEPARTMENT OF ENVIRONMENTAL QUALITY

AFFIDAVIT OF NO DISCHARGE – DEQ FORM 530 E (9-98)
INSTRUCTIONAL GUIDE

Please complete the Affidavit by responding to each item. DEQ cannot evaluate the Affidavit until the information requested is provided. If a specific question is not applicable to your facility please indicate by answering "NA" next to the question. Discharge permits and applications will not be discontinued until the Affidavit of No Discharge is considered complete. Any questions concerning the Affidavit may be directed to the Department of Environmental Quality or your local Deq representative. **DO NOT ATTEMPT TO COMPLETE THE AFFIDAVIT BEFORE READING THESE INSTRUCTIONS.**

1. Give the facility name in such a way as to distinguish it from other facilities owned by the same entity. Example : Denton Wastewater Treatment Facility – West.

2. Give the address of the actual facility including the city and zip code.

3. Give the county in which the facility is located as well as the legal description in ¼, ¼, ¼ Section, Township, Range or Longitude – Latitude.

4. Give the name and complete mailing address of the legal entity that owns the facility – city, town, public entity, company name, corporation or an individual.

5. Give the name, title and phone number of the person to contact for information concerning the facility.

6. Give the address where mail, concerning the facility is received.

7. Place an X next to the type of facility requesting a permit.

8. Place an X next to the type of treatment used by the facility.

9. Indicate whether the facility is owned by a public entity or a private individual(s).

10. Indicate whether the facility was originally designed to discharge (with an outfall) or as a total retention facility without an outfall structure.

11. If the facility is permitted at the present time or has applied for a permit, please indicate here and give the NPDES Number assigned by the DEQ and/or EPA.

12. Indicate whether the facility has ever had an outfall structure. If it has, then explain any modifications made in order to change the facility status to total retention.

13. If the facility has been abandoned, indicate here. Indicate whether the abandoned site has a holding pond or lift station for wastewater transferred to another site for treatment. Give the type of treatment used at the receiving facility and the DEQ and/or EPA assigned NPDES number for that facility if appropriate.

The owner/applicant or authorized representative must certify that all information is correct to the best of his/her knowledge and request any permit or application for permit on file (if any) be inactivated. The affidavit must be notarized and verified by your local DEQ representative before being submitted to the DEQ. Please note that the DEQ may require additional information.

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-7200240 | Permit No. OKG11T212 | County Rogers/Tulsa | SIC

Sherwood Construction Co — Name of Facility
5411 N 145th East Ave — Address
Owasso — City
74055 — Zip

Greenhill Concrete Products, Inc — Name of Owner
PO Box 10 — Address
Catoosa — City
74015 — Zip

Phil Rush — Name of Contact
Operations Manager — Position
(918) 272-3999 — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03		
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		(12) Sign has been updated
~~DISCHARGE PERMITS~~ Total Retention Facility	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: ____ Contract laboratory ____ Facility; Samples analyzed by: ____ Contract laboratory ____ Facility	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

SWPPP records now up-to-date

Concrete approach not yet complete but area is no longer impounding water

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Carrie Everson — Environmental Specialist — Employee ID# ____

Phil Rush — Copy received by — Title

DEQ FORM # 616-530B (Rev. 10/2005)

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
(30) : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. ____
(33) : Follow-Up
34 : Emergency/Disaster

ACTION
(35) : None
36 : Notice to Comply by: ____ date
37 : Refer to WQD

Date: 3 / 19 / 2014

Total number of items marked: 0

Number of critical items marked: 0

TYPE CLASS
(74 : R) Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : DI Discharging Lagoon (min)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AFFIDAVIT OF NO DISCHARGE

This form applies to the following types of facilities:
1. Wastewater treatment facilities
   a. Total retention by evaporation
   b. Total retention by an approved Land Application Program
2. Water Plants that treat backwash water by re-cycling or evaporation lagoons.
3. Swimming Pools that treat wastewater by evaporation in total retention lagoons.
4. Dairy farm wastewater treatment facilities.
5. Abandoned wastewater facilities.

I-72002620
(CF Number)
OK0045781
(NPDES No. if Applicable)

1. FACILITY NAME: Greenhill Concrete Products, Inc. (formerly Tulsa Dynaspan/Arrow Concrete)
2. FACILITY ADDRESS: 1601 E. Houston SIreet, Broken Arrow, OK 74012
3. FACILITY COUNTY: Tulsa LEGAL (¼ ¼ ¼ Sec., T, R) SE/4, NW/4, NE/4, Section 13, T18N, R14E, Tulsa Co., OK
4. OWNER NAME AND ADDRESS: Greenhill Concrete Products, Inc., P.O. Box 10, Caloosa, OK 74015
5. CONTACT PERSON: Phil Rush PHONE: 918-272-3999 TITLE: Operations Manager
6. MAILING ADDRESS: P.O. Box 10, Caloosa, OK 74015
7. TYPE OF FACILITY: WASTEWATER PLANT ( ) WATER PLANT ( ) SWIM. POOL ( ) DAIRY FARM ( ) OTHER (X)
8. TYPE OF TREATMENT: EVAPORATION (X) LAND APPLICATION ( ) OTHER (X)
9. THIS FACILITY IS: PUBLICLY OWNED ( ) PRIVATELY OWNED (X)
10. THIS FACILITY WAS DESIGNED AS A:

    ( ) TOTAL RETENTION FACILITY WITH NO OUTFALL STRUCTURE SUCH AS AN OUTFALL BOX OR SLUICE GATE
    (X) DISCHARGING FACILITY

11. HAS THIS FACILITY EVER HAD AN OPDES PERMIT TO DISCHARGE OR HAS THERE BEEN APPLICATION MADE FOR A PERMIT?
    YES (X) NPDES NO OK0045781 NO ( )
12. HAS THIS FACILITY EVER HAD AN OUTFALL BOX OR SLUICE GATE THAT COULD RESULT IN A WASTEWATER DISCHARGE? YES (X) NO ( )
    IF YES TO 12., GIVE A BRIEF EXPLANATION OF ANY CONSTRUCTION OR REUSE OF THE WASTEWATER THAT HAS RESULTED IN A CHANGE OF DISCHARGE STATUS Pond F03 has been closed and Oulfall 001 abandoned. This outfall is also noI on Greenhill's property.
13. DOES THE SWIMMING POOL, MOBILE HOME PARK, DAIRY FARM, ETC. CONTINUE TO GENERATE WASTEWATER ? YES (X) NO ( )
    IF YES TO 13., ARE THERE HOLDING PONDS AND/OR A LIFT STATION AT THE SITE? YES ( ) NO (X)

    WHERE IS THE WASTEWATER TREATED? Ponds F01, F02, F04-F06
    ( ) TOTAL RETENTION FACILITY
    (X) DISCHARGING FACILITY – NPDES NUMBER OK0045781

    IF NO TO 13., HAS THE FACILITY OR ENTITY GENERATING THE WASTEWATER BEEN ABANDONED ? YES (X) NO ( )

I, (Name) Phil Rush, (Title) Operations Manager CERTIFY THAT THE ABOVE INFORMATION IS CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT THE (Facility) Pond F03 DOES NOT DISCHARGE WASTEWATER TO ANY WATERS OF THE STATE NOR DOES IT DISCHARGE TO ANY DITCH OR LAND AREA THAT COULD RESULT IN A DISCHARGE TO WATERS OF THE STATE. I CERTIFY THAT IN THE EVENT OF A HYDRAULIC LOAD INCREASE OR OTHER FACTORS OCCUR THAT WILL CAUS E THE FACILITY TO DISCHARGE WASTEWATER, AN APPLICATION FOR A PERMIT TO DISCHARGE WILL BE EXECUTED AT LEAST 180 DAYS PRIOR TO AN EXPECTED DISCHARGE. I UNDERSTAND THAT ALL UNEXPECTED UNPERMITTED DISCHARGES MUST BE REPORTED TO THE APPROPRIATE AGENCIES IMMEDIATELY.
I REQUEST THAT THE NPDES PERMIT/APPLICATION NUMBER OK00 NA BE DISCONTINUED.

APPLICANT REPRESENTATIVE : Phil Rush Phil Rush TITLE : Operations Manager

Subscribed and sworn to before me this 17 day of April, 2014

NOTARY PUBLIC: [signature] My commission expires: 10-24-2016

Confirmed by Environmental Specialist: [signature] R.S. NO. 1208 DATE: 4-17-14

Oklahoma Department of Environmental Quality – 707 N. Robinson St., P. O. Box 1677, Oklahoma City, OK 73101-1677

DEQ Form No. 530 E (9-98)

LAURA BOSANKO
NOTARY PUBLIC - STATE OF OKLAHOMA
TULSA COUNTY
MY COMMISSION EXPIRES 10-24-2016
COMMISSION # 12010203

RECEIVED
APR 21 2014
WATER QUALITY DIVISION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Arrow Concrete Company
ADDRESS: 1601 E Houston Ave.
Broken Arrow, OK 74012
FACILITY: ARROW CONCRETE COMPANY
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
12/01/2013	12/31/2013

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormwater runoff.
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
MAY - 5 2014
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	916-272-3999		04/30/2014
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging
I-720026020

ENTERED MAY 0 5 2014

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Arrow Concrete Company
ADDRESS: 1601 E Houston Ave.
Broken Arrow, OK 74012
FACILITY: ARROW CONCRETE COMPANY
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
01/01/2014	01/31/2014

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormwater runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
MAY - 5 2014
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-272-3999		04/30/2014
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I-720026020

ENTERED MAY 0 5 2014

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

FAC ID #3421

John R. Curtis, Manager
Sherwood Construction, Inc.
P.O. Box 10
Catoosa, OK 74015-0010

Permit Number: 2005-012-O
Permit Writer: Herb Neumann
Date: February 12, 2010

BLUE

SUBJECT: Facility: Greenhill Materials
Location: Section 10, T20N, R14E, Rogers County, OK
Date Received: February 12, 2010

Dear Mr. Curtis:

The Air Quality Division (AQD) has received your Notice of Intent (NOI) to replace a crusher and increase the throughput of the referenced facility currently operating under the General Permit for Nonmetallic Mineral Processing Facilities (GP-NMP), as authorized by Permit No. 2005-012-O. Please note the following language from your current authorization.

III. Equipment Additions/Authorization Modifications

Construction of additional emission units...or operational changes...may be allowed over the life of this Authorization without obtaining an Authorization to Construct so long as facility-wide emissions do not exceed that amount which would cause the facility to be classified as a major source.

Written notification of intent to construct, or to make operational changes... must be provided to DEQ within 7 days of the start of operation. Neither an Authorization to Construct nor a new Authorization to Operate is required for these changes.

The current GP-NMP establishes these conditions in Part 4, Section II (C). Notification of intent is necessary and sufficient to add such equipment or to make such operational changes and no fee is required. Your check is enclosed. Please note that all of the requirements with respect to notification and testing that may be required by NSPS Subpart OOO must be followed.

Thank you for your cooperation. If you have any questions, please refer to the permit number above and contact the permit writer by telephone at (918) 293-1624 or by mail at the DEQ Regional Office, 3105 E. Skelly Drive, Suite 200, Tulsa, OK 74105-6370.

Sincerely,

Herb Neumann
AIR QUALITY DIVISION

F2C5
1-7200262O

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

SELF REPORTING WASTEWATER BYPASS FORM

(TO BE SUBMITTED WITHIN 5 DAYS OF OCCURRENCE)

Date: June 6, 2014 DEQ Facility ID # S# or I# - OK0045781

Facility Name: GREENHILL CONCRETE, BROKEN ARROW, OK

Report All Bypasses to the DEQ Within 24 hours to: **1-800-256-2365**

Mail Written Report Within 5 Days To: Department of Environmental Quality
Water Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

DEQ notified within 24 hours of Bypass on: Date: 6/6/14

Time: 11:14 a.m.

Type of Bypass: ☐ Pipe ☐ Clarifier / Filter ☒ Lagoon / Basin ☐ Manhole
☐ API Separator ☐ Head Works ☐ Drying Beds ☐ Batch Reactor
☐ Lift Station ☐ Digester ☐ Other (specify) _____

Period of Bypass: From 06 (Month) 04 (Day) 2014 (Year) Unknown ☐ AM ☐ PM (See Inspection by DEQ Report)

To 06 (Month) 06 (Day) 2014 (Year) 2:00 ☐ AM ☒ PM

Strength of Bypass: ☐ Raw ☒ Partially Treated Amount of Bypass: 63,000 gallons (Estimated)

Were fish or other wildlife affected as a result of the bypass? ☐ Yes ☒ No (If Yes, complete DEQ Form 605-001) (See attached)

Type of Samples Taken: ☐ BOD ☐ TSS ☐ O&G ☒ pH ☐ DO ☐ None ☐ Other _____

Geographical Location of Bypass (including Outfall Number or receiving stream if appropriate) Detention Pond FØ6 to Outfall ØØ2

Reason for Bypass: Recent rainfall since 5/25 of 4.72" in addition to watering of aggregate stockpiles.

Steps taken to prevent recurrence: Immediate: Treat facility with acid, getting ph below 9.0 and discharge 16,808 gallons. Long-Term: Installation of stockpile watering system using recycled water from FØ6.

Impact to receiving stream and/or surrounding areas: Minimal: ph sample taken below FØ2 was 8.77

Steps taken to clean up or treat Bypass: None required. Will test facility FØ6 water during the month of June and forward results to DEQ.

Reported by: Matty Ritchie Title: Vice President - Materials

Signature: [signature] Date: 6/9/14

RECEIVED
JUN 12 2014
WATER QUALITY DIVISION

Include copies of ANY test results.

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002620 Permit No. OK0045781 County Tulsa SIC

~~Arnold Concrete Co. Div. of Tulsa Dynasteel~~ Greenhill Concrete — Name of Facility
1601 E. Houston Ave. — Address
Broken Arrow, OK — City
74012 — Zip

Greenhill Concrete — Name of Owner
P.O. Box 10 — Address
Catoosa — City
74015 — Zip

Don Smith — Name of Contact
Maintenance — Position
918-361-2756 — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS			DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		FOG was Full and overflowing to the area when outfall 002 discharges
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03	X	
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04	X	
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05	X	
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09	X	
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: Greenhill Concrete (Contract laboratory / Facility) Samples analyzed by: ____ (Contract laboratory / Facility)	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Contact Randy For Lab info. (Randy Berson 918-695-8840)

Facility should submit a bypass Form, open the valve to FOG 6 collect samples For analysis.

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Brian F. Hogg — Environmental Specialist — Employee ID# ____

Don Smith — Copy received by — Maintenance — Title

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: 7/1/14 (date)
37 : Refer to WQD

Date: 6/4/14

Total number of items marked: 4

Number of critical items marked: 2

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : DI Discharging Lagoon (min)

DEQ FORM # 616-530B (Rev. 10/2005)

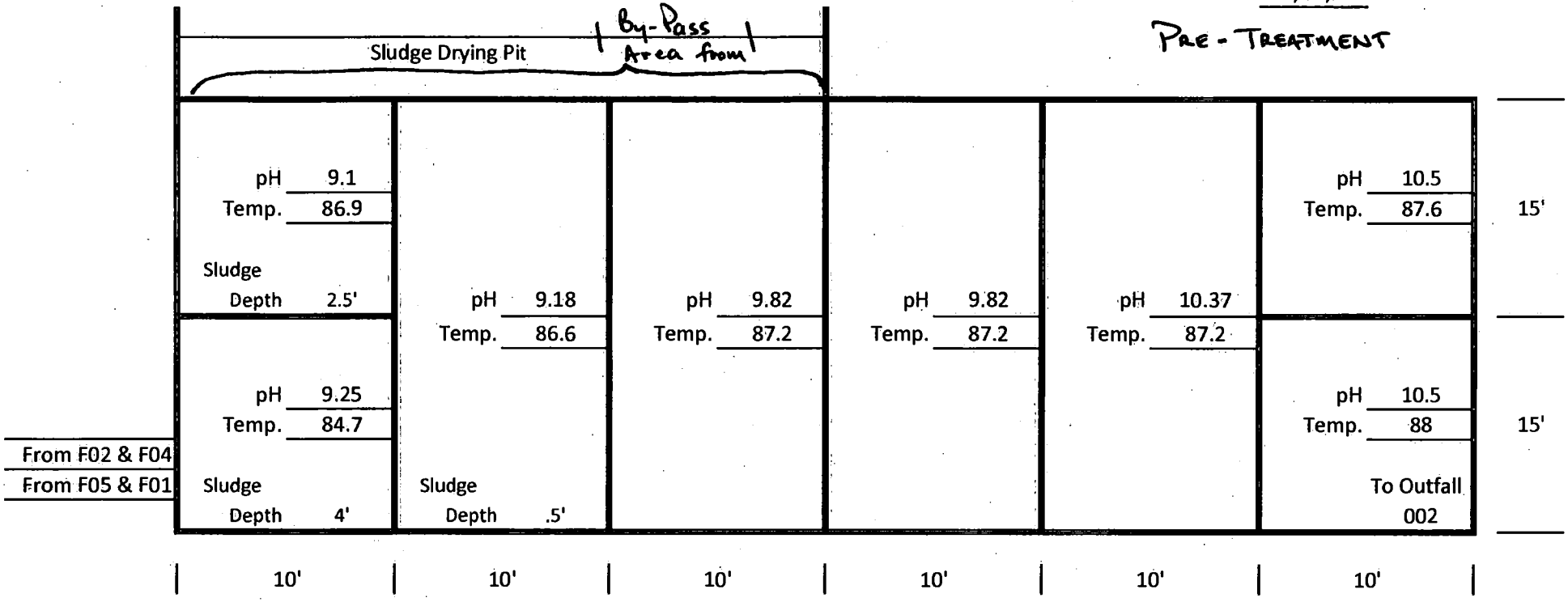
RECEIVED
JUN 12 2014
WATER QUALITY DIVISION

Greenhill Concrete

Facility: BROKEN ARROW **Detention Pond:** F06 **Completed by:** PGR

Date 06/06/14

PRE-TREATMENT



Length	30
Width	10
Depth	5.834
c.f.	1750.2
gal./c.f.	7.47

No removal / pH					
	13073.99	13073.99	13073.99	13073.99	13073.99

Pending Re-test	~~65,370~~	gal.

No Discharge.
(Discharge Pending)

H:\DEQ\TESTING\BA F06 Pre_Treatement Worksheet 6.6.14.xlsx

Greenhill Concrete

Facility: BROKEN ARROW **Detention Pond:** F06 **Completed by:** PGR **Date** 06/06/14

POST-TREATMENT

Sludge Drying Pit

pH 8.15 Temp. 83.4 Sludge Depth 2.5'					pH 7.82 Temp. 84.8	15'
	pH 7.2 Temp. 83.9	pH 6.4 Temp. 84.3	pH 6.8 Temp. 84.5	pH 6.4 Temp. 84.6		
pH 8.7 Temp. 83.4 Sludge Depth 4'	Sludge Depth .5'				pH 7.7 Temp. 84.8 To Outfall 002	15'
From F02 & F04 From F05 & F01						
10'	10'	10'	10'	10'	10'	

Length	30
Width	10
Depth	1.5
c.f.	450
gal./c.f.	7.47

No removal / pH	3361.5	3361.5	3361.5	3361.5	3361.5

At Discharge of 16,808 gal.

H:\DEQ\TESTING\BA F06 Post_Treatement Worksheet 6.6.14.xlsx

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002620 Permit No. OK0045781 County Tulsa SIC

Greenhill Concrete Products, LLC — Name of Facility
1601 E. Houston Ave. — Address
Broken Arrow, OK — City
74012 — Zip

Green Hill Concrete Products — Name of Owner
P.O. Box 10 — Address
Catoosa — City
74015 — Zip

Randy Beeson — Name of Contact
G.M Superior Env. Comp — Position
918-739-4780 — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		Adequate Freeboard
	616-7-1	Treatment system properly operated and maintained	03		
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: Superior Env. Compliance (Contract laboratory) Facility Samples analyzed by: Green Country Lab (Contract laboratory) Facility	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23	X	Holding Time For ph exceeded in June 2014. Facility needs to determine method for meeting 15 minute hold time
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Brian F. Clagg — Environmental Specialist
Employee ID#
R. J. Beeson — Copy received by
Consultant — Title

DEQ FORM # 616-530B (Rev. 10/2005)

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. _____
~~33~~ : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: 8/15/14 date
37 : Refer to WQD

Date: 7 / 17 / 14

Total number of items marked: 1

Number of critical items marked: 0

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : ~~D~~ 1 Discharging Lagoon (min)

QC 9-16-2014 CDG Matt 9-15-14

RECEIVED
SEP 10 2014
AIR QUALITY

Company: SHERWOOD CONSTRCTN CO INC Facility: GREENHILL MATL 2013-1739-3421-76309-55

Unit Sequence No. 55 **Emission Unit Name:** Primary Crusher PPCR-1 to Conveyor PPC

Unit Type: Transfer Point Unit Status: Operating Latitude: 36.22819 Longitude: -95.80579 (Decimal Degrees)

Note Added: By: Comment:

Emission Release Point Name: PPCR-1 to PPC-1 **Release Point Type:** Fugitive **Status:** Operating

Release Point Parameter						Fugitive Release Point Parameters		DEQ Stack ID
Height	Diameter	Gas Exit Temperature	Flow Rate		Gas Exit Velocity	Height of Release Point Above Grade	Area Over Which Emissions are Released	
0 Feet	0 Feet	0 Deg. F	0	Actual Cubic Feet/Min	0 Feet/Sec	10 Feet	653400 SquareFeet	76305

Process Data

SCC: 30502006 (Source Classification Code) DEQ Process ID: 189504 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material Input/Output: Used (Input)

Process Rates

Maximum Hourly:	45
Typical Daily:	320
Actual Annual:	43498

Process Rate Units: Tons

Combustion Processes

Design Capacity: 0

Fuel Data (combustion process only)

Fuel Heat Content: 0 Sulfur Content: 0 Wt % Ash Content: 0 Wt %

Typical Operating Periods (when process is operational)

Hrs/Day: 4 Days/Wk: 5 Wks/Yr: 52

Actual Hours/Year: 995

Seasonal Operating Fractions

Spring: 0.25 Summer: 0.25 Fall: 0.25 Winter: 0.25

Applicable Regulations for this Process

Reg Id	Regulation Type	CFR Part, Subpart	Regulation Description	Start Year

Emissions From This Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) CAS Number: Trace (< 0.001 tons)

Calculation Method: AP-42 Factors

Emission Factor: 0.0029 Pounds (Numerator Units) / Tons (Denominator Units)

Reference: Method/Factor Includes Control Efficiency?

Total Actual Emissions .044
~~0.012~~ Tons

Capture Efficiency: 100 %

Primary Control Device: Dust Suppression Primary Efficiency: 30 %

Secondary Control Device: * Uncontrolled Secondary Efficiency: 0 %

Excess Emissions: 0 Tons

Permit/Rule Limit: 0 Tons/Year

43498 x .0029 = 126.1442 ~~lb~~ Pounds / 2000

= .063 x .70 = .044

Company: SHERWOOD CONSTRCTN CO INC Facility: GREENHILL MATL 2013-1739-3421-76309-55

Unit Sequence No. 55 **Emission Unit Name:** Primary Crusher PPCR-1 to Conveyor PPC-1

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Trace ☐ (< 0.001 tons)

Total Actual Emissions ~~0.017~~ 0.0002 **Tons**

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0011~~ 0.000013 Pounds (Numerator Units) / Tons (Denominator Units)

Reference:

Method/Factor Includes Control Efficiency? ☐

Capture Efficiency: 100 %

Primary Control Device: Dust Suppression **Primary Efficiency:** 30 %

Secondary Control Device: * Uncontrolled **Secondary Efficiency:** 0 %

Excess Emissions: 0 Tons

Permit/Rule Limit: 0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name
56	Conveyor PPC-1 to Conveyor PPC-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-1 to PPC-2 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: 0.0019 / 2

Reference:

Factor includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: 0.0126 / 0.044 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:		Trace ☐ (<0.001 tons)	Total Actual Emissions 0.0170 ~~0.0170~~ Tons .0002
Calculation Method	AP-42 Factors	Emission Factor	~~0.0011~~ 0.000013	Pounds	Numerator Units
Reference		Factor Includes Control Efficiency? ☐		Tons	Denominator Units
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0
				Excess Emissions	0 Tons
				Amount allowed	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC
FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
57	Primary Screen PPSC-1		Screen	Operating	36.228190	-95.805790

Stack Name: Primary Screen PPSC-1 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.025~~ 0.0029

Reference:

Factor Includes Control Efficiency?

Pounds — Numerator Units

Tons — Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: ~~0.2480~~ 0.044 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:				Trace (<0.001 tons)	Total Actual Emissions: ~~0.1320~~ 0.0002 Tons
Calculation Method	AP-42 Factors	EmissionFactor	~~0.0087~~ 0.000013	Pounds	Numerator Units		
Reference		Factor Includes Control Efficiency?		Tons	Denominator Units		
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0 Tons
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name
58	Screen PP SC-1 to Underbelly Belt PPC-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPSC-1 to PPC3 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
26	200	26099

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0019~~ 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0070~~ 0.026 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:				Trace (<0.001 tons)	Total Actual Emissions: ~~0.81~~ 0.0001 Tons
Calculation Method	AP-42 Factors	EmissionFactor	~~0.0011~~ 0.000013	Pounds	Numerator Units		
Reference		Factor Includes Control Efficiency?		Tons	Denominator Units		
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0 Tons
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Unit Type	Status	Latitude	Longitude
59	Conveyor PPC-3 to Conveyor PPC-4	Transfer Point	Operating	36.228190	-95.805790

Notes:

Stack Name: PPC-3 to PPC-4 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	25	200	26099

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Reference:

EmissionFactor: ~~0.0019~~ 0.0029

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0070~~ 0.026 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:		Trace ☐ (<0.001 tons)	Total Actual Emissions ~~0.01~~ 0.0001 Tons
Calculation Method	AP-42 Factors	EmissionFactor	~~0.0011~~ 0.000013	Pounds	Numerator Units
Reference		Factor Includes Control Efficiency? ☐		Tons	Denominator Units

Capture efficiency (%)	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0	Tons
100	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0	Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC
FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name
60	Conveyor PPC-4 to Pile

Notes

Unit Type	Status	Latitude	Longitude
Transfer Point	Operating	36.228190	-95.805790

Stack Name: Conveyor PPC-4 to Pile Stack Type: Fugitive Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	200	26099

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0011~~ 0.0029

Reference: Factor Includes Control Efficiency?

Pounds — Numerator Units

Tons — Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0070~~ Tons 0.026

Capture efficiency (%): 100

Primary Control Device: Dust Suppression Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	**CAS Number:**			
Calculation Method		**EmissionFactor**			Trace ☐ (<0.001 tons)
AP-42 Factors		~~0.0819~~ 0.000013	Pounds	**Numerator Units**	**Total Actual Emissions** ~~0.81~~ 0.0001 Tons
Reference		**Factor Includes Control Efficiency?** ☐	Tons	**Denominator Units**	

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0 Tons
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
61	Screen PPSC-1 to Conveyor PPC-10		Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPSC-1 to PPC-10 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
4	30	4350

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0019~~ 0.0029

Reference:

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: 0.0010 ~~0~~ 4 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:				Trace (<0.001 tons)	Total Actual Emissions: ~~0.0020~~ 0.00002 Tons
Calculation Method		Emission Factor					
AP-42 Factors		~~0.0011~~ 0.000013		Pounds	Numerator Units		
Reference		Factor Includes Control Efficiency?		Tons	Denominator Units		
Capture efficiency (%)	Primary Control Device		Primary Efficiency (%)		Excess Emissions		
100	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0	Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Unit Type	Status	Latitude	Longitude
62	Screen PPSC-1 to Conveyor PPC-5	Transfer Point	Operating	36.228190	-95.805790

Notes:

Stack Name: PPSC-1 to PPC-5 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0019~~ 0.0029

Reference:

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0010~~ 0.002 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:		Trace ☐ (<0.001 tons)	Total Actual Emissions: 0.0010 Tons 0.0001
Calculation Method	AP-42 Factors	Emission Factor	~~0.0011~~ 0.000013	Numerator Units: Pounds	
Reference		Factor Includes Control Efficiency? ☐		Denominator Units: Tons	
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0
				Excess Emissions	0 Tons
				Amount allowed	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence: 63 — Emission Unit Name: Conveyor PPC-5 to Conveyor PPC-6

Notes:

Unit Type	Status	Latitude	Longitude
Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-5 to PPC-6 — Stack Type: Fugitive — Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0019~~ 0.0029

Reference:

Factor includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0010~~ 2 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:		Trace (<0.001 tons)	Total Actual Emissions: ~~0.0010~~ 0.00001 Tons
Calculation Method	AP-42 Factors	EmissionFactor	~~0.0011~~ 0.000013	Pounds	Numerator Units
Reference		Factor Includes Control Efficiency?		Tons	Denominator Units
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC
FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name
64	Conveyor PPC-6 to Conveyor PP-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-6 to PPC-7 | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0019~~ 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Trace ☐ (<0.001 tons)

Total Actual Emissions: ~~0.0018~~ 0.002 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** ~~0.0810~~ 0.00001 Tons
Calculation Method	**EmissionFactor**				
AP-42 Factors	~~0.0811~~ 0.000013	Pounds	**Numerator Units**		
Reference	**Factor Includes Control Efficiency?** ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions** 0 Tons
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
65	Conveyor PPC-7 to Pile		Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-7 to Pile | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Emission Factor: ~~0.0019~~ 0.0029

Reference:

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: 0.0010 ~~1~~ 2 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:				Trace (<0.001 tons)	Total Actual Emissions: 0.0010 Tons 0.00001
Calculation Method	AP-42 Factors	Emission Factor	~~0.0011~~ 0.000013	Pounds	Numerator Units		
Reference		Factor Includes Control Efficiency?		Tons	Denominator Units		
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0 Tons
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
66	Conveyor PPC-10 to Pile		Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-10 to Pile | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
5	30	4350

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Reference:

EmissionFactor: ~~0.0019~~ 0.0029

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0010~~ Tons ~~0.0002~~ 0.0004

Capture efficiency (%): 100

Primary Control Device: Dust Suppression

Secondary Control Device: * Uncontrolled

Primary Efficiency (%): 30

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:		Trace (<0.001 tons)	Total Actual Emissions: ~~0.0020~~ 0.00001 Tons
Calculation Method	Permit Factors	Emission Factor	~~0.0011~~ 0.000013	Numerator Units	Pounds
Reference		Factor Includes Control Efficiency?		Denominator Units	Tons
Capture efficiency (%)	100	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30
		Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0
				Excess Emissions	0 Tons
				Amount allowed	0 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
67	Screen PPSC-1 to Conveyor PPC-8		Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPSC-1 to PPC-8 | Stack Type: Fugitive | Status: Operating

Stack Parameters					Fugitive Release Point Parameters	
Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)	Fugitive area(sqft)	Fugitive Ht. (ft)
0	0	0	0	0	653400	10

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	11	80	10875

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Reference:

Emission Factor: ~~0.0019~~ 0.0029

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0030~~ 0.011 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:				Trace (<0.001 tons)	Total Actual Emissions: ~~0.0040~~ 0.00005 Tons
Calculation Method	EmissionFactor						
AP-42 Factors	~~0.0011~~ 0.000013	Pounds	Numerator Units				
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units				
Capture efficiency (%)	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0	Tons
100	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0	Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
68	Conveyor PPC-8 to Conveyor PPC-9		Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-8 to PPC-9 | Stack Type: Fugitive | Status: Operating

Stack Parameters					Fugitive Release Point Parameters	
Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)	Fugitive area(sqft)	Fugitive Ht. (ft)
0	0	0	0	0	653400	5

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Tons		
	Maximum Hourly	Typical Daily	Actual Annual
	11	80	10875

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Reference:

Emission Factor: ~~0.0019~~ 0.0029

Factor Includes Control Efficiency? ☐

Numerator Units: Pounds

Denominator Units: Tons

Trace ☐ (<0.001 tons)

Total Actual Emissions: ~~0.0030~~ 0.011 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:			
Calculation Method		EmissionFactor			Trace ☐ (<0.001 tons)
AP-42 Factors		~~0.0011~~ 0.000013	Pounds	Numerator Units	Total Actual Emissions: ~~0.0040~~ 0.00005 Tons
Reference		Factor Includes Control Efficiency? ☐	Tons	Denominator Units	

Capture efficiency (%)	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0	Tons
100	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0	Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

Sequence	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
69	Conveyor PPC-9 to Pile		Transfer Point	Operating	36.228190	-95.805790

Stack Name: PPC-9 to Pile | Stack Type: Fugitive | Status: Operating

Stack Parameters

Gas Exit Vel. (ft/s)	Stack Ht. (ft)	Stack Dia. (ft)	Stack Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

SCC: 30502006 | Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	11	80	10875

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 | Days/Week 5 | Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 | Summer 0.25 | Fall 0.25 | Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

Reference:

Emission Factor: ~~0.0019~~ 0.0029

Factor Includes Control Efficiency?

Numerator Units: Pounds

Denominator Units: Tons

Trace (<0.001 tons)

Total Actual Emissions: ~~0.0038~~ 0.011 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression | Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled | Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	* PM-2.5 (All Particulate Matter <2.5 microns)	CAS Number:			
Calculation Method		EmissionFactor			Trace ☐ (<0.001 tons)
AP-42 Factors		~~0.0011~~ 0.0000113	Pounds	Numerator Units	Total Actual Emissions: ~~0.0040~~ 0.00005 Tons
Reference		Factor Includes Control Efficiency? ☐	Tons	Denominator Units	

Capture efficiency (%)	Primary Control Device	Dust Suppression	Primary Efficiency (%)	30	Excess Emissions	0	Tons
100	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0	Tons/Year

2013 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

Emissions Inventory Section, Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100

For Instructions and Help, please visit:
www.deq.state.ok.us/AQDnew/Emissions

Company: SHERWOOD CONSTRCTN CO INC

Facility: GREENHILL MATL

DEQ Company ID: 1739

DEQ Facility ID: 3421

Emissions Summary (Please Update with 2013 Totals):

Carbon, Nitrogen, and Sulfur pollutant	CAS Number	TOTAL AMOUNT (Includes All Excess Emissions)
* Carbon Monoxide	630080	7.450
* Nitrogen Oxides - NOx		6.050
* Sulfur Oxides - SOx		.000

Ozone and VOC pollutants	CAS Number	TOTAL AMOUNT (Includes All Excess Emissions)	Is the Pollutant a HAP?
* Volatile Organics (non-HAP)		.882	N

Particulate pollutants	CAS Number	TOTAL AMOUNT (Includes All Excess Emissions)	Is the Pollutant a HAP?
* PM-10 (All Particulate Matter <10 microns)		~~66.525~~ 65.90	N
* PM-2.5 (All Particulate Matter <2.5 microns)		~~1.421~~ 1.174	N
Chromium and Chromium compounds		.000	Y

Certification

"I certify:
(a) that I am the responsible official for this company as defined in OAC 252: 100-1-3; and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: Matt Ritchie **Title:** VP - Materials

Signature: [signature] **Date:** 9/8/14

Materials
1st E. Ave.
74128

7013 1710 0001 1794 7212

RECEIVED

Ms. Michelle Horn
Emissions Inventory Section
Air Quality Division
Oklahoma Department of Environmental Quality
PO Box 1677
Oklahoma City, OK 73101-1677

Superior. Always.

RECEIVED
NOV 18 2014
WATER QUALITY DIVISION

November 14, 2014

Ms. Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: OPDES Permit Renewal Application, DEQ Permit No. OK0045781
Sherwood Construction Company, Inc., dba Greenhill Concrete Products, Inc.
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Ms. Paden:

Enclosed please find the Proof-of-Publication for the first legal notice associated with the above OPDES Permit Renewal Application. Please contact me if you or your staff has any questions.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

Enclosure

cc: Sherwood Construction Company

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|1640 S. 101st E. Ave., Tulsa, OK 74128|
randy.beeson@secompliance.com| www.superiorenviro.com

PUBLISHER'S AFFIDAVIT

DEQ/TIER II APPLICATION NOTICE

PUBLICATION DATE(S)
10/29/14

CASE NUMBER: DEQ/TIER II APPLICATION NOTICE

AD NO: 00188989

LEGAL NOTICE

STATE OF OKLAHOMA
COUNTY OF Tulsa } **SS**

I, of lawful age, being duly sworn, am a legal representative of Tulsa Business & Legal News of Tulsa, Oklahoma, a daily newspaper of general circulation in Tulsa, Oklahoma, a newspaper qualified to publish legal notices, advertisements and publications as provided in Section 106 of Title 25, Oklahoma Statutes 1971 and 1982 as amended, and thereafter, and complies with all other requirements of the laws of Oklahoma with reference to legal publications. That said notice, a true copy of which is attached hereto was published in the regular edition of said newspaper during the period and time of publication and not in a supplement, on the ABOVE LISTED DATE(S)

Representative Signature

Subscribed to and sworn to me this 30th day of October, 2014.

Notary Public

KATHLEEN A. DRAKE

My commission number: 06000391

My commission expires: January 9, 2018

Customer #: 00036101

Customer: GREENHILL CONCRETE

Publisher's Fee: 48.30

KATHLEEN A. DRAKE NOTARY PUBLIC No. 06000391 EXP. 1/09/2018 IN AND FOR STATE OF OKLAHOMA

188989 & 188990
Published in the Tulsa Business & Legal News, October 29, 2014 and the Broken Arrow Ledger, October 31, 2014, Tulsa County, Oklahoma

Legal Notice

A Tier II application for a renewal of an OPDES permit to discharge industrial wastewater has been filed with the Department of Environmental Quality (DEQ) by Greenhill Concrete Products, Inc., 1640 S. 101st East Avenue, Tulsa, OK 74128.

The applicant requests a permit to discharge wastewater from its Broken Arrow Concrete Batch Plant, located in the SE/4, NW/4, NE/4, Section 13, T18N, R14 EIM, Tulsa County, Oklahoma, or at 1601 E. Houston Street, Broken Arrow, OK 74012.

The discharge, which will consist of concrete delivery truck washout, will be to an unnamed tributary of Broken Arrow Creek in the SE/4, NW/4, NE/4, Section 13, T18N, R14EIM, Tulsa County, OK. The permit, if issued, would establish effluent limitations on the discharge.

The application may be viewed at the South Broken Arrow Library, 3600 S. Chestnut, Broken Arrow, OK 74011.

After reviewing the application the DEQ will prepare either a draft permit or draft denial. At that time, notice of the prepared draft will be made by the Department and the public will be given the opportunity to review it, submit written comments, or request a public meeting within thirty days.

For additional information, contact the applicant's representative, Mr. Matt Ritchie, at 918-266-6861 or 1640 S. 101st East Avenue, Tulsa, OK 74128, or the Industrial Permitting Unit of the Water Quality Division of the Department's central office, located at 707 N. Robinson, P.O. Box 1677, Oklahoma City, OK 73101-1677, (405) 702-8100.

PERMITTING GROUP

F1C2

PERMIT APPLICATION ROUTING SLIP

Routing Sequence:

Task		Routed to		
		Name	Date	By
Application received (date-stamped) and copied		[redacted]	10/20/14	JL
Application routed to permitting manager for initial review	Previous Permit Writer	Carol	11/18/14	JL
Routed to permit engineering staff		Brandon	11/18/14	CMP
Check Information	Check number or CC for Credit Card	Amount	Date Rcv'd	Rcv'd By
	614890	$518.16	11/3/14	ASD

Facility Name: Greenhill Concrete Products, Inc. **County:** Tulsa

Permit Type — **Application Form(s) Required**

(check 1 box)

☐ Municipal Major (OK00)	2M1
☐ Municipal Minor (OK00)	2M2
☐ Municipal Discharging Lagoon (OKG58)	2MG58
☐ Municipal Filter Backwash (OKG38)	2MW
☐ Industrial Major (OK00)	1, 2C, or 2D (2SI/2L as needed)
☒ Industrial Minor (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Surface Impoundment (WD, CW, or W)	1 and 2SI (2L as needed)
☐ Class III Surface Impoundment GP (OKGC3T)	GC3T
☐ Surface Coal Mine GP (OKG04)	G04
☐ Concrete Batch Plant GP – Discharge (OKG11)	G11
☐ Concrete Batch Plant GP – Total Retention (OKG11T)	G11
☐ Mobile Concrete Batch Plant GP – Total Retention (OKG11MT)	G11MT
☐ Mobile Concrete Batch Plant GP – Relocation (OKG11MT)	G11MTR
☐ Hydrostatic Test Project GP (OKG27)	G27
☐ Vehicle Wash GP – Discharge (OKG75)	G75
☐ Vehicle Wash GP – Total Retention (OKG75T)	G75
☐ UST Remediation GP (OKG83)	G83
☐ Rock, Sand, & Gravel Quarry GP – Discharge (OKG95)	G95
☐ Rock, Sand, & Gravel Quarry GP – Total Retention (OKG95T)	G95
☐ Industrial User/Pretreatment (OKP003)	Form 1 and 606-008

(check 1 box) ☐ New Pmt ☒ Renewal ☐ Modification ☐ Resubmission ☐ Pmt Conversion

Facility ID No. 72002620 ☐ Relocation

Permit No. OK0045781

Old Permit No. (for conversions only) _____

Comments: 15-11609

Permitting Group Use Only

OPDES PERMIT RENEWAL APPLICATION

Greenhill Concrete Batch Plant
1601 E. Houston Street
Broken Arrow, OK 74012

Prepared for:

Greenhill Concrete Products, Inc.
1640 S. 101st East Avenue
Tulsa, OK 74128

October 2014

RECEIVED
OCT 20 2014
WATER QUALITY DIVISION

Superior Environmental Compliance, Inc.
P.O. Box 1822
Catoosa, OK 74015

Superior. Always.

October 15, 2014

Ms. Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: OPDES Permit Renewal Application, DEQ Permit No. OK0045781
Sherwood Construction Company, Inc., dba Greenhill Concrete Products, Inc.
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Ms. Paden:

Enclosed please find three copies of the wastewater discharge permit renewal application for the above facility. Please contact me if you or your staff have any questions.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

cc:

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|1640 S. 101st E. Ave., Tulsa, OK 74128|
randy.beeson@secompliance.com| www.superiorenviro.com

FORM 1 GENERAL	OKLAHOMA DEQ	OPDES APPLICATION TO DISCHARGE AND/OR TREAT OR DISPOSE OF INDUSTRIAL WASTEWATER OR SLUDGE **GENERAL INFORMATION**

A. TYPE OF PERMIT REQUESTED

NEW		RENEWAL	X	MODIFICATION		CONVERSION FROM GENERAL PERMIT	

B. REGULATED ACTIVITIES

INSTRUCTIONS: ALL applicants MUST fill out FORM 1. Complete items 1 through 5 below to determine which additional forms you need to submit. If you answer "yes" to any questions, you must submit the supplemental form listed after the question in parentheses. If you answer "no" to every question, you do not need to submit an application. You may answer "no" if your activity is covered by a general permit or is otherwise excluded from individual permit requirements (see Section C of the instructions). See Section D of the instructions for definitions of **bold-faced** terms.

SPECIFIC QUESTIONS	YES	NO
1. Is this an existing facility which currently results in a **discharge** of industrial **wastewater** to **waters of the State** and is not eligible for an authorization under a general permit? (FORM 2C)	X	
2. Does this facility use or propose to use **surface impoundments** (pits, ponds or lagoons) and/or **tank systems** to treat or dispose of industrial **wastewater** and/or **land apply** industrial **sludge** or **wastewater**? (FORM 2SI, which replaces FORM 2S)		X
3. Is this a proposed facility which will result in a **discharge** of industrial **wastewater** to **waters of the State**? (FORM 2D)		X
4. Does this facility perform or propose to perform **land application** of industrial **sludge** or **wastewater** (including beneficial use for soil conditioning, crop or vegetative fertilization, erosion control or dust suppression)? (FORM 2L)		X
5. Is this a new or existing **categorical user** or **significant industrial user** in a **non-pretreatment municipality** that will or does discharge industrial **wastewater** to a **public owned treatment works**? (FORM 606-008)		X

C. NAME OF FACILITY

Greenhill Concrete Products, Inc. - Broken Arrow Batch Plant

D. FACILITY CONTACT

1. NAME & TITLE	2. PHONE (area code & number)
Matt Ritchie, Vice President, Materials	918-266-6861

E. FACILITY MAILING ADDRESS

1. STREET OR P.O. BOX	2. TELEFAX (area code & number)	
1640 S. 101st E. Avenue	918-266-6482	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Tulsa, OK 74128	OK	74128

F. FACILITY LOCATION

1. STREET, ROUTE NO., OR OTHER SPECIFIC IDENTIFIER	2. COUNTY	
1601 E. Houston Street	Tulsa	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Broken Arrow	OK	74012

6. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)

SE/4, NW/4, NE/4, Section 13, Township 18 North, Range 14 East (Indian Meridian)

G. OPERATOR INFORMATION

1. NAME	2. Is the operator also the owner?			
Greenhill Concrete Products, Inc.	YES	X	NO	

3. STATUS OF OPERATOR (enter appropriate letter in box; if "Other," specify)			4. PHONE (area code & number)
F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)	P	(specify)	918-266-6861

5. STREET OR P.O. BOX	6. TELEFAX (area code & number)
1640 S. 101st E. Avenue	918-266-6482

7. CITY OR TOWN	8. STATE	9. ZIP CODE	H. Is the facility located on Indian land?			
Tulsa	OK	74128	YES		NO	X

FOR OFFICIAL USE ONLY

OPDES PERMIT NO.	RECEIVED OCT 20 2014 WATER QUALITY DIVISION Date Stamp		**DATE** / **INIT.**
STATE PERMIT NO.		**PUBLIC NOTICE**	
STATE ID NO.		**TIER I, II, or III**	

I. DEQ LANDOWNER NOTIFICATION AFFIDAVIT

1. Does applicant own all land subject to the application:	Yes	X	No	

If yes, proceed to section J. If no, proceed to part 2 of this section.

2. Application(s) for which the applicant does not own all the land subject to the application must notify the owner(s) of leases and/or pipeline right-of-ways that a permit application has been submitted to the DEQ. The basis for this requirement is 27A of the Oklahoma Statutes, § 2-14-103(9), as described in OAC 252:004-7-13(b). DEQ Form 100-810 shall be used for this purpose and is available on the DEQ web page.

J. EXISTING ENVIRONMENTAL PERMITS

1. NPDES	2. UIC	3. RCRA	4. PSD
OK0045781			
5. OTHER (permit number)	(description)	**6. OTHER** (permit number)	(description)

K. MAP

Attach a topographic map (or other map if a topographic map is unavailable) extending one mile beyond the property boundaries. The map must show the outline of the facility, the location of each of its intake and discharge structures; each of its hazardous waste treatment, storage, or disposal facilities; each well where fluids are injected underground; and those wells, springs, other surface water bodies, and drinking water wells listed in public records or otherwise known to the applicant.

L. SIC CODES (4-digit, in order of priority)

1. FIRST		2. SECOND	
(number) 3273	(specify) Concrete batch plant	(number)	(specify)
3. THIRD		**4. FOURTH**	
(number)	(specify)	(number)	(specify)

M. NATURE OF BUSINESS

1. PRODUCTS AND SERVICES

Production of Ready-Mix Concrete

2. PLANT OPERATIONS

a. PROCESS/OPERATION	b. PRODUCT	c. DAILY QUANTITY (units)
Mechanical aggregate blending	Ready-mix concrete	Average of 300 cy/da

3. Date facility began operations:	1982	4. Number of employees at this location:	23
5. Plant normally operates:	8-10 hours per day,	5-6 days per week, in	1 shifts.

N. SOURCES OF WATER SUPPLY AND AMOUNT USED

Identify all sources of facility water by entering the appropriate letter(s) in the boxes below and then providing the appropriate description(s), as indicated in parentheses. List each source on a separate line. If you have more than one source of a given type, indicate this by entering the letter, followed by two digits (e.g., if your water comes from three wells, the sources would be indicated as G01, G02, and G03). For each source, estimate of the average daily use. Continue on additional sheets if needed.

G = GROUNDWATER WELL	(legal description of well location)
S = SURFACE WATER	(name of stream, river, lake, etc., and legal description of intake)
P = PUBLIC WATER SUPPLY	(name of entity from which water is obtained)
W = WASTEWATER TREATMENT PLANT	(name of entity from which water is obtained)
O = OTHER	(source of supply, and legal description if applicable)

1. SOURCE	2. DESCRIPTION	3. AVG. DAILY USE (GPD)
P	City of Broken Arrow municipal water supply	13,375
O	Recycled Wastewater	3,500

O. CERTIFICATION (see instructions)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. NAME & OFFICIAL TITLE (type or print)	2. SIGNATURE	3. DATE SIGNED
Matt Ritchie, Vice President, Materials		10/15/14

Form 1, Attachment 1
Public Notice and Application Requirements

A public notice is not required for a Tier I permit application. The Oklahoma Uniform Environmental Permitting Act, 27A O.S. §2-14-301 requires that upon filing a Tier II or Tier III application with the Department, the applicant shall publish notice of the filing as legal notice in one newspaper local to the proposed new site or existing facility. For Tier III applications, the publication shall also include notice of a thirty-day opportunity to request, or give the date, time and place for, a process meeting on the permitting process.

According to OAC 252:4-7, the following is required for a Tier I, II, or III application: two (2) copies of Tier I applications must be filed with the DEQ; three (3) copies of Tier II and Tier III applications must be filed with the DEQ and one copy must be placed for public review in the county in which the facility is located. A copy of the application must remain on file at the location of the public review site until issuance of the related permit.

Use the following table as guidance for determining the public notice and application requirements for the facility. Select the category appropriate to the facility and follow the public notice and application requirements. If a public notice is necessary, instructions for completing the public notice are given in the following pages.

Question	Yes / No	Tier I, II, or III	Public Notice Requirements	Applications
Is the facility applying for a renewal of an expiring permit for an industrial, non-discharging impoundment or tank system?		Tier I	None	Three (3) copies of the application must be filed with the DEQ.
Is the facility applying for a renewal of an expiring permit with minor or no change for land application of sludge and/or wastewater?				
Is the facility applying for a new or renewal of an expiring permit for a Categorical or Significant Industrial User in a Non-Pretreatment Municipality to discharge industrial waste to the POTW?				
Is the facility applying for a new discharge permit or renewal of an expiring discharge permit for a minor facility?	X	Tier II	The applicant must publish notice of the filing as legal notice in one newspaper local to the proposed new site or existing facility.	Three (3) copies of the application must be filed with the DEQ and one copy must be placed for public review in the county in which the facility is located.
Is the facility applying for a renewal of an expiring discharge permit for a major facility?				
Is the facility applying for a new permit for an industrial, non-discharging impoundment or tank system?				
Is the facility applying for a new permit or major modification of an existing permit for land application of sludge and/or wastewater?				
Is the facility applying for a new discharge permit for a major facility?		Tier III	The applicant must publish notice of the filing as legal notice in one newspaper local to the proposed new site or existing facility. The publication must also include notice of a thirty-day opportunity to request (or give the date, time, and place for) a process meeting on the permitting process.	Three (3) copies of the application must be filed with the DEQ and one copy must be placed for public review in the county in which the facility is located.

Legal Notice

A Tier II application for a renewal of an OPDES permit to discharge industrial wastewater has been filed with the Department of Environmental Quality (DEQ) by Greenhill Concrete Products, Inc., 1640 S. 101st East Avenue, Tulsa, OK 74128.

The applicant requests a permit to discharge wastewater from its Broken Arrow Concrete Batch Plant, located in the SE/4, NW/4, NE/4, Section 13, T18N, R14 EIM, Tulsa County, Oklahoma, or at 1601 E. Houston Street, Broken Arrow, OK 74012.

The discharge, which will consist of concrete delivery truck washout, will be to an unnamed tributary of Broken Arrow Creek in the SE/4, NW/4, NE/4, Section 13, T18N, R14EIM, Tulsa County, OK. The permit, if issued, would establish effluent limitations on the discharge.

The application may be viewed at the South Broken Arrow Library, 3600 S. Chestnut, Broken Arrow, OK 74011.

After reviewing the application the DEQ will prepare either a draft permit or draft denial. At that time, notice of the prepared draft will be made by the Department and the public will be given the opportunity to review it, submit written comments, or request a public meeting within thirty days.

For additional information, contact the applicant's representative, Mr. Matt Ritchie, at 918-266-6861 or 1640 S. 101st East Avenue, Tulsa, OK 74128, or the Industrial Permitting Unit of the WQater Quality Division of the Department's central office, located at 707 N. Robinson, P.O. Box 1677, Oklahoma City, OK 73101-1677, (405) 702-8100.

FORM 2C DISCHARGE	OKLAHOMA DEQ	OPDES APPLICATION TO DISCHARGE AND/OR DISPOSE OF INDUSTRIAL WASTEWATER OR SLUDGE **EXISTING SOURCES**

A. NAME OF FACILITY

Greenhill Concrete Products, Inc. - Broken Arrow Batch Plant

B. FACILITY CONTACT

1. Name & Title	2. Phone (AC + No.)	3. FAX (AC + No.)	4. E-mail Address
Matt Ritchie, Vice President, Materials	(918) 266-6861	(918) 266-6482	mattr@greenhillconcrete.com

C. OUTFALL LOCATION

1. For each outfall, list the legal description (¼, ¼, ¼, Section, Township, Range) to the nearest 10 acres and the name of the receiving water.

a. Outfall No.	b. Legal Description	c. Receiving Water
002	SE/4, NW/4, NE/4, Section 13, T18N, R14EIM	Unnamed tributary of Broken Arrow Creek

2. For each outfall, list the latitude and longitude.

a. Outfall No.	b. Latitude	c. Longitude
002	36 deg 02' 32.2" N	95 deg 46' 8.8" W

FOR OFFICIAL USE ONLY

OPDES PERMIT NO.	STATE PERMIT NO.	FACILITY ID NO.

D. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

1. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item D-2 below. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
2. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

a. Outfall No.	b. Operation(s) Contributing Flow	c. Average Flow (include units)	d. Description of Treatment
002	Runoff from aggregate stockpiles.		Sedimentation, pH adjustment
	Concrete delivery truck barrel washout		Sedimentation, pH adjustment
	Direct precipitation		Sedimentation, pH adjustment
	Yard runoff		Sedimentation, pH adjustment

D. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (continued)

3. Except for storm runoff, leaks or spills, are any of the discharges described in Items D-1 or 2 intermittent or seasonal?

☐ Yes (complete the following table) ☒ No (go to Item E)

a. Outfall No.	b. Operation(s) Contributing Flow	c. Frequency		d. Flow				
				Flow Rate		Total Volume		
		Days Per Week	Months Per Year	Long Term Average	Maximum Daily	Long Term Average	Maximum Daily	Duration (days)

E. PRODUCTION

1. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ Yes (complete Item E-2) ☐ No (go to Item F)

2. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ Yes (complete Item E-3) ☒ No (go to Item F)

3. If you answered "yes" to Item E-2, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

a. Average Daily Production			b. Affected Outfall
(1) Qty Per Day	(2) Units of Measure	(3) Operation, Product, Material, etc.	

F. INTAKE AND EFFLUENT CHARACTERISTICS

1, 2 & 3: See instruction before proceeding – **Complete one set of tables (pages 5 - 12) for each outfall** – Annotate the outfall number in the space provided.

4. Use the space below to list any of the pollutants listed in Table 2C-2 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

a. Pollutant	b. Source	c. Outfall No.
None of the pollutants listed in Table 2C-2 are known		
to be in use at this facility.		

G. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item F-3 a substance or component of a substance which you currently use or manufacture as an intermediate product, final product or byproduct?

☐ Yes (list all such pollutants below) ☒ No (go to Item H)

a. Pollutant (from Item F-3, pages 6-12)	b. Nature of Use or Occurrence

H. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (identify tests and describe purpose and results below) ☒ No (go to Item I)

a. Date of Test(s)	b. Nature and Purpose of Test(s)	c. Results of Test(s)

I. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. NAME & OFFICIAL TITLE (type or print)	b. SIGNATURE	c. DATE SIGNED
Matt Ritchie, Vice President, Materials		10/15/14

Greenhill Concrete Products, Inc., Broken Arrow, OK

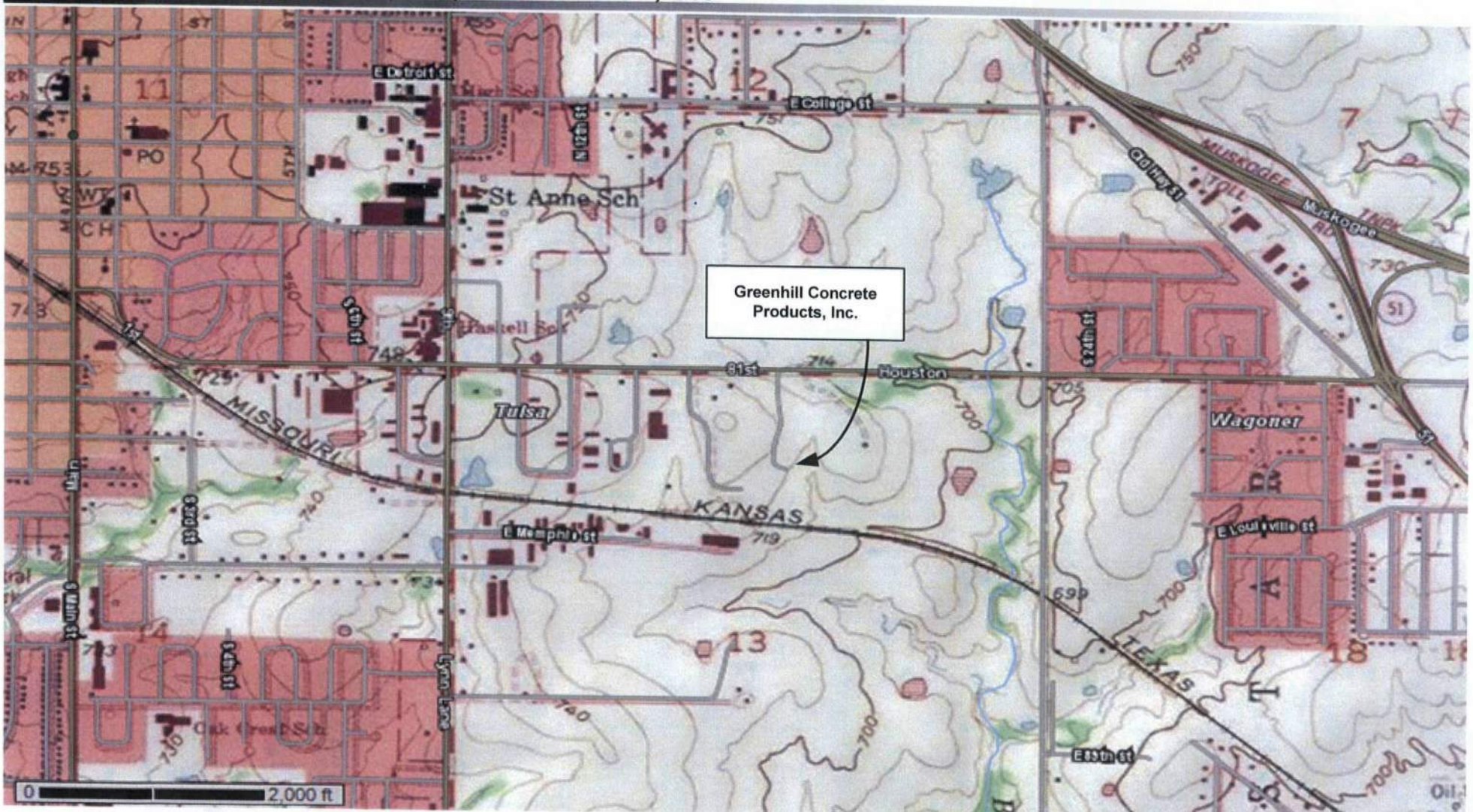
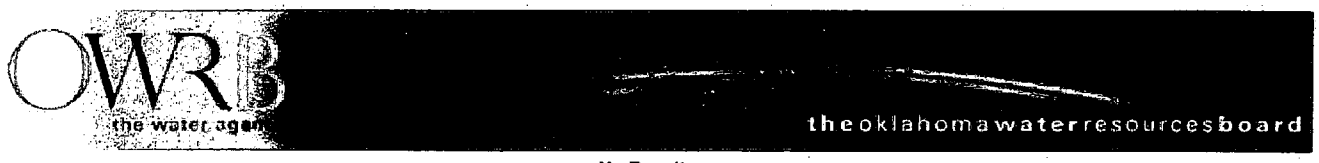


Figure 2

Site Topo Map

October 10, 2014

N



No Results

We have completed the water well search within your area of interest, '13, 18N, 14E' in Oklahoma and no water wells records were found in this area.

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consists of information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in the area, which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OWRB. A field survey may need to be conducted to verify the presence or absence of other water wells.
The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as reported by the well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that corrections to the database may be made.

contact OWRB | disclaimer

Visit OK.gov, the Official Website of the State of Oklahoma.

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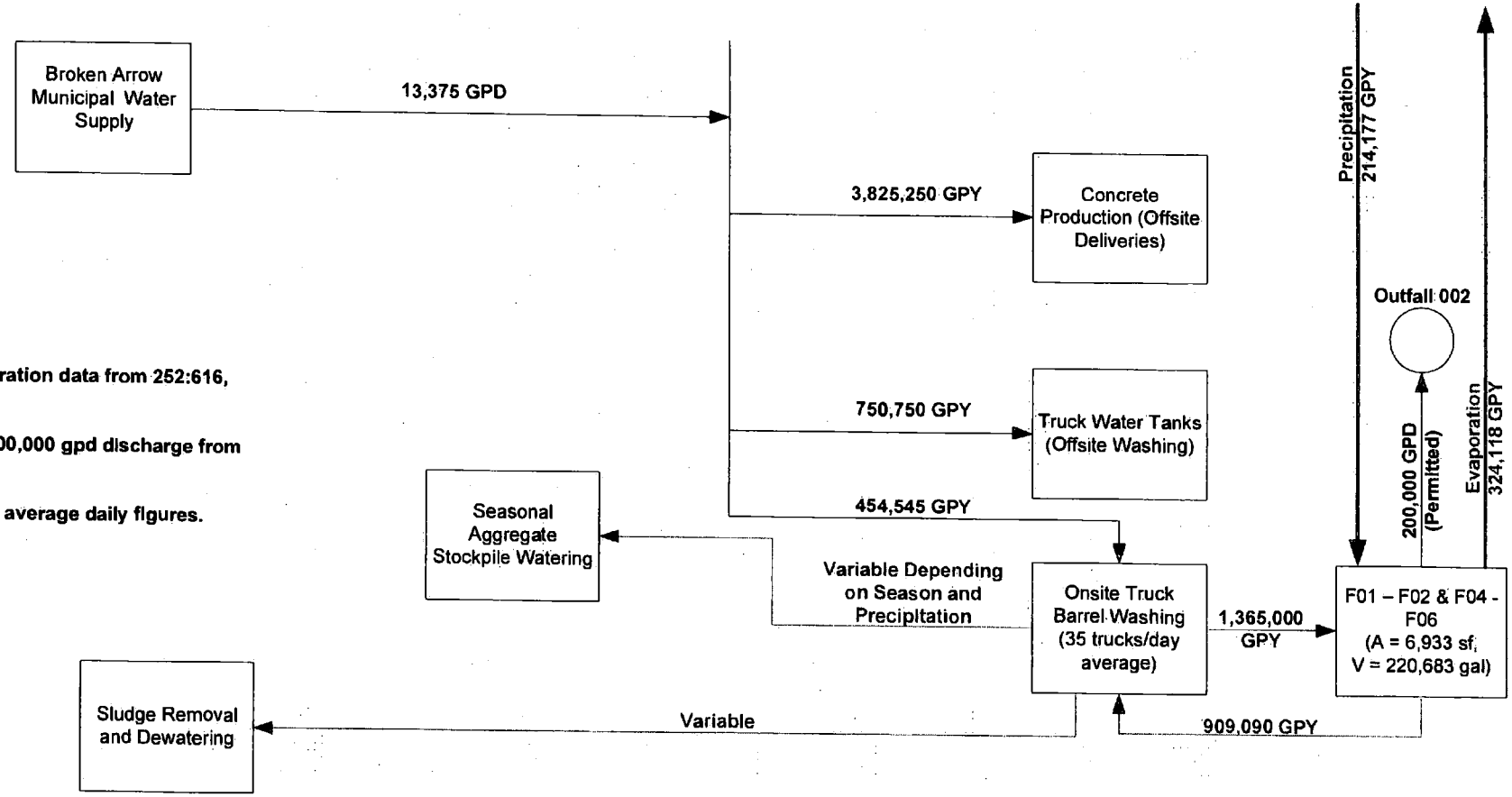
Greenhill Concrete Products, Inc., Broken Arrow, OK



NOTES:

Precipitation and evaporation data from 252:616, App. C.

Current permit allows 200,000 gpd discharge from F06.

Water usage figures are average daily figures.

Figure 3

Water Use Line Drawing

October 13, 2014

GREENHILL CONCRETE PRODUCTS, INC.
Broken Arrow Concrete Batch Plant

F01 Through F02 and F04 Through F06 Discharge Impoundment Calculations

A. Precipitation and Evaporation Data:

1. Tulsa County 90th Percentile Precipitation = 49.54 inches/year (4.13'/yr)
2. Tulsa County 90th Percentile Evaporation = 75 inches/year (6.25')

Net Evaporation = 25.64 inches/year

Precipitation:

F01 through F06 surface area = 6,933 sf
Precipitation = (6,933 sf) (4.13'/yr) = (28,633.29 cf) (7.48 gal/cf) = 214,177 gal/yr

Evaporation: = (6,933 sf) (6.25'/yr) = (43,331.25 cf) (7.48 gal/cf) = 324,117.75 gal/yr

B. Truck Washout Volume Calculations:

Given: Average 300 cy/da of production
8.5 cy load/truck
(300 cy/da)/(8.5 cy/load) = 35 trucks/da

Assume: 150 gal/truck for barrel washout (discharge to Pond F01)
100 gal/truck is recycle water from Pond F01
50 gal/truck is fresh water from City of BA
260 da/yr of plant operation

Annual Truck Washout Volume:

V = (35 trucks/da) (150 gal/truck) (260 da/yr)
V = 1,365,000 gpy

Fresh Water Volume = (1,365,000 gpy) (0.333) = 454,545 gpy
Recycle Water Volume = (1,365,000) (0.666) = 909,090 gpy

C. Facility Water Usage:

City of Broken Arrow Municipal Water System:

Given: 30 gal/cy of fresh water
75 gal/truck for offsite washing
50 gal/truck for onsite barrel washing

V = (300 cy/da) (30 gal/cy) + (75 gal/truck) (35 trucks) + (35 trucks) (50 gal/truck for washout)
V = 9,000 gal/da + 2,625 gal/da + 1,750 gal/da
V = 13,375 gal/da

Recycled Wastewater:

Given: 100 gal/truck for onsite barrel washing
V = (35 trucks/da) (100 gal/truck)
V = 3,500 gal/da

Greenhill Concrete Products, Inc., Broken Arrow, OK

LEGEND

A 10,000-gal Diesel Fuel AST	Surface Water Flow Direction	Exterior Additive Storage Area	
	Pole-Mounted Transformers	Property Boundary	

SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Figure 1

Site Map

October 10, 2014

N

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

7014 0150 0001 5495 4538

November 20, 2014

CERTIFIED MAIL

Matt Richie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, LLC – Broken Arrow
P.O. Box 10
Catoosa, Oklahoma 74015

RE: OPDES Permit Modification Application, Permit No. OK0045781
Sherwood Construction Company, Inc. dba Greenhill Concrete Products, LLC,
Tulsa County, Oklahoma
Facility ID No. I-72002620

NOTICE OF DEFICIENCY

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to discharge wastewater was received by this office on October 20, 2014. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be incomplete. It is necessary for you to submit the following information before we can begin to prepare your draft permit:

- Application Form 2SI: All applicants seeking a permit for an industrial surface impoundment system must submit a Form 2SI. Form 2SI requests information specifically for surface impoundment systems. Please complete the enclosed Form 2SI and submit it to the Oklahoma Department of Environmental Quality (DEQ).

- Application Form 2C: Form 2C was submitted but missing Item F, Part 1. All applicants seeking a permit to discharge must at least complete Part 1 of this section. Please complete the enclosed Form 2C and submit it to the Oklahoma Department of Environmental Quality (DEQ).

Please submit the requested information by December 12, 2014. The permit application review process is hereby suspended pending receipt of the requested information.

Thank you for your cooperation. If you have any questions concerning this submittal or the permit procedures, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Brandon Tyler
Industrial Permits Section
Water Quality Division

CMP/BT/ab DM

PERMITTING GROUP

F1C2

PERMIT APPLICATION ROUTING SLIP

Routing Sequence:

Task		Routed to Name	Date	By
Application received (date-stamped) and copied		[redacted]	1/13/15	
Application routed to permitting manager for initial review	Previous Permit Writer			
		1		
Routed to permit engineering staff		Brandon	1/13/15	
Check Information	**Check number or CC for Credit Card**	**Amount**	**Date Rcv'd**	**Rcv'd By**

Facility Name: Green Hill Concrete Products, Inc Broken Arrow **County:** Tulsa

Permitting Group Use Only

Permit Type		**Application Form(s) Required**
(check 1 box)	☐ Municipal Major (OK00)	2M1
	☐ Municipal Minor (OK00)	2M2
	☐ Municipal Discharging Lagoon (OKG58)	2MG58
	☐ Municipal Filter Backwash (OKG38)	2MW
	☐ Industrial Major (OK00)	1, 2C, or 2D (2SI/2L as needed)
	☒ Industrial Minor (OK00)	1, 2C, or 2D (2SI/2L as needed)
	☐ Industrial Surface Impoundment (WD, CW, or W)	1 and 2SI (2L as needed)
	☐ Class III Surface Impoundment GP (OKGC3T)	GC3T
	☐ Surface Coal Mine GP (OKG04)	G04
	☐ Concrete Batch Plant GP – Discharge (OKG11)	G11
	☐ Concrete Batch Plant GP – Total Retention (OKG11T)	G11
	☐ Mobile Concrete Batch Plant GP – Total Retention (OKG11MT)	G11MT
	☐ Mobile Concrete Batch Plant GP – Relocation (OKG11MT)	G11MTR
	☐ Hydrostatic Test Project GP (OKG27)	G27
	☐ Vehicle Wash GP – Discharge (OKG75)	G75
	☐ Vehicle Wash GP – Total Retention (OKG75T)	G75
	☐ UST Remediation GP (OKG83)	G83
	☐ Rock, Sand, & Gravel Quarry GP – Discharge (OKG95)	G95
	☐ Rock, Sand, & Gravel Quarry GP – Total Retention (OKG95T)	G95
	☐ Industrial User/Pretreatment (OKP003)	Form 1 and 606-008

(check 1 box) ☐ **New Pmt** ☐ **Renewal** ☐ **Modification** ☒ **Resubmission** ☐ **Pmt Conversion**

Facility ID No. 72002620 ☐ **Relocation**

Permit No. OK0045781

Old Permit No. (for conversions only) _____

Comments:

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FORM 2C DISCHARGE	OKLAHOMA DEQ	OPDES APPLICATION TO DISCHARGE AND/OR DISPOSE OF INDUSTRIAL WASTEWATER OR SLUDGE **EXISTING SOURCES**

A. NAME OF FACILITY

Greenhill Concrete Products, Inc. - Broken Arrow Batch Plant

B. FACILITY CONTACT

1. Name & Title	2. Phone (AC + No.)	3. FAX (AC + No.)	4. E-mail Address
Matt Ritchie, Vice President, Materials	(918) 266-6861	(918) 266-6482	mattr@greenhillconcrete.com

C. OUTFALL LOCATION

1. For each outfall, list the legal description (¼, ¼, ¼, Section, Township, Range) to the nearest 10 acres and the name of the receiving water.

a. Outfall No.	b. Legal Description	c. Receiving Water
002	SE/4, NW/4, NE/4, Section 13, T18N, R14EIM	Unnamed tributary of Broken Arrow Creek

2. For each outfall, list the latitude and longitude.

a. Outfall No.	b. Latitude	c. Longitude
002	36 deg 02' 32.2" N	95 deg 46' 8.8" W

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OPDES PERMIT NO.	STATE PERMIT NO.	FACILITY ID NO.

D. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (continued)

3. Except for storm runoff, leaks or spills, are any of the discharges described in Items D-1 or 2 intermittent or seasonal?

[X] **Yes** (complete the following table) [ ] **No** (go to Item E)

a. Outfall No.	b. Operation(s) Contributing Flow	c. Frequency		d. Flow				
				Flow Rate		Total Volume		
		Days Per Week	Months Per Year	Long Term Average	Maximum Daily	Long Term Average	Maximum Daily	Duration (days)
002	Direct Precipitation	varies	12	varies	36,000 gpd	214,177 gpy	36,000 gpd	varies
	Concrete delivery truck barrel washout	5-6	12	1,225 gpd	1,750 gpd	454,545 gpy	1,750 gpd	275 da/yr

E. PRODUCTION

1. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

[X] **Yes** (complete Item E-2) [ ] **No** (go to Item F)

2. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

[ ] **Yes** (complete Item E-3) [X] **No** (go to Item F)

3. If you answered "yes" to Item E-2, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

a. Average Daily Production			b. Affected Outfall
(1) Qty Per Day	(2) Units of Measure	(3) Operation, Product, Material, etc.	

F. INTAKE AND EFFLUENT CHARACTERISTICS

1, 2 & 3: See instruction before proceeding – **Complete one set of tables (pages 5 - 12) for each outfall** – Annotate the outfall number in the space provided.

4. Use the space below to list any of the pollutants listed in Table 2C-2 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

a. Pollutant	b. Source	c. Outfall No.
None of the pollutants listed in Table 2C-2 are known		
to be in use at this facility.		

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D. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

1. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item D-2 below. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

2. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

a. Outfall No.	b. Operation(s) Contributing Flow	c. Average Flow (include units)	d. Description of Treatment
002	Direct precipitation	214,177 gpy	pH adjustment
	Concrete delivery truck barrel washout	454,545 gpy	Sedimentation, pH adjustment

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G. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item F-3 a substance or component of a substance which you currently use or manufacture as an intermediate product, final product or byproduct?

☐ Yes (list all such pollutants below) ☒ No (go to Item H)

a. Pollutant (from Item F-3, pages 6-12)	b. Nature of Use or Occurrence

H. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (identify tests and describe purpose and results below) ☒ No (go to Item I)

a. Date of Test(s)	b. Nature and Purpose of Test(s)	c. Results of Test(s)

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JAN 13 2015

WATER QUALITY DIVISION

I. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

a. NAME & OFFICIAL TITLE (type or print)	b. SIGNATURE	c. DATE SIGNED
Matt Ritchie, Vice President, Materials		1/6/15

Outfall No. 002

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.	OPDES Permit No.	State Permit No.	Facility ID No.	Form 2C, Item F Parts 1, 2 and 3

F. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2C)

PART 1 - You must provide the results of at least one analysis for every pollutant in this table. **Complete one table for each outfall.** See instructions for additional details.

a. Pollutant	b. Effluent							c. Units		d. Intake (optional)		
	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Avg Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
	Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
Biochemical Oxygen Demand (BOD)	16.0		16.0		16.0		1	mg/L		NA	NA	
Chemical Oxygen Demand (COD)	48.4		48.4		48.4		1	mg/L		NA	NA	
Total Organic Carbon (TOC)	18.9		18.9		18.9					NA	NA	
Total Suspended Solids (TSS)	255		255		36.4		8	mg/L		NA	NA	
Ammonia (as N)	0.9		0.9		0.9		1	mg/L		NA	NA	
Chloride	289		289		289		1	mg/L		NA	NA	
Dissolved Solids, Total	982		982		982		1	mg/L		NA	NA	
Sulfate (as SO_4)	224		224		224		1	mg/L		NA	NA	
Flow	Value	0.458	Value	0.458	Value	0.0641	8	MGD [x] GPD [ ]		Value	NA	
Temperature Winter	Value	7.0	Value	7.0	Value	7.0	1	°C		Value	NA	
Temperature Summer	Value		Value		Value		0	°C		Value		
pH	Minimum Daily	6.08	Maximum Daily	9.95			8	Standard Units				

PART 2 - Mark "X" in column b(1) for each pollutant you know or have reason to believe is present. Mark "X" in column b(2) for each pollutant you believe to be absent. If you mark column b(1) for any pollutant which is limited either directly, or indirectly but expressly, in an Effluent Limitation Guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column b(1), you must provide quantitative data or an explanation of their presence in your discharge. **Complete one table for each outfall.** See the instructions for additional details and requirements.

a. Pollutant	b. Mark "X"		c. Effluent							d. Units		e. Intake (optional)		
	(1) Believed Present	(2) Believed Absent	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Average Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
			Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
Bromide		X												
Chlorine, Total Residual		X												
Color		X												
Fecal Coliform		X												
Fluoride		X												

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WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X" (1) Believed Present	b. Mark "X" (2) Believed Absent	c. Effluent: Maximum Daily Value Conc.	c. Effluent: Maximum Daily Value Mass	c. Effluent: Maximum 30 Day Value (if available) Conc.	c. Effluent: Maximum 30 Day Value (if available) Mass	c. Effluent: Long Term Avg Value (if available) Conc.	c. Effluent: Long Term Avg Value (if available) Mass	c. Effluent: No. of Analyses	d. Units Conc.	d. Units Mass	e. Intake (optional): Long Term Average Value Conc.	e. Intake (optional): Long Term Average Value Mass	e. Intake (optional): No. of Analyses
Nitrate-Nitrite (as N)		X												
Nitrogen, Total Organic (as N)		X												
Oil and Grease	X		30.5		30.5		8.29		8	mg/L		NA		
Phosphorus (as P), Total		X												
Radioactivity: Alpha, total		X												
Radioactivity: Beta, total		X												
Radioactivity: Radium, total		X												
Radioactivity: Radium 226, total		X												
Sulfide (as S)		X												
Sulfite (as SO_3)		X												
Surfactants		X												
Aluminum, total		X												
Barium, total		X												
Boron, total		X												
Cobalt, total		X												
Iron, total		X												
Magnesium, total		X												
Molybdenum, total		X												
Manganese, total		X												
Tin, total		X												
Titanium, total		X												

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WATER QUALITY DIVISION

Outfall No. 002

PART 3 - If you are a primary industry and this outfall contains process wastewater, refer to Table 2C-1 in the instructions to determine which of the GC/MS organic fractions you are required to test in addition to the toxic metals, cyanide and total phenols. Then mark "X" in column b(1) for the pollutant groups you are required to test. For the remaining pollutants, mark "X" in column b(2) for each pollutant you know or have reason to believe is present. Mark "X" in column b(3) for each pollutant you believe to be absent. **Complete one table for each outfall.** See instructions for additional details and requirements.

a. Pollutant	b. Mark "X"			c. Effluent							d. Units		e. Intake (optional)		
	(1) Testing Required	(2) Believed Present	(3) Believed Absent	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Avg Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
				Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
METALS, CYANIDE, AND TOTAL PHENOLS															
Antimony, total			X												
Arsenic, total			X												
Beryllium, total			X												
Cadmium, total			X												
Chromium, total			X												
Copper, total			X												
Lead, total			X												
Mercury, total			X												
Nickel, total			X												
Selenium, total			X												
Silver, total			X												
Thallium, total			X												
Zinc, total			X												
Cyanide, total			X												
Phenols, total			X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-p-Dioxin			X	Describe Results:											
GC/MS FRACTION – VOLATILE COMPOUNDS															
Acrolein			X												
Acrylonitrile			X												
Benzene			X												

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JAN 13 2015

WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X"			c. Effluent							d. Units		e. Intake (optional)		
	(1) Testing Required	(2) Believed Present	(3) Believed Absent	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Avg Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
				Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
Bis (Chloroethyl) Ether			X												
Bromoform			X												
Carbon Tetrachloride			X												
Chlorobenzene			X												
Chlorodibromomethane			X												
Chloroethane			X												
2-Chloroethylvinyl Ether			X												
Chloroform			X												
Dichlorobromomethane			X												
Dichlorodifluoromethane			X												
1,1-Dichloroethane			X												
1,2-Dichloroethane			X												
1,1-Dichloroethylene			X												
1,2-Dichloropropane			X												
1,3-Dichloropropylene			X												
Ethylbeozene			X												
Methyl Bromide			X												
Methyl Chloride			X												
Methylene Chloride			X												
1,1,2,2-Tetrachloro-ethane			X												
Tetrachloroethylene			X												
Toluene			X												

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WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X"			c. Effluent							d. Units		e. Intake (optional)		
	(1) Testing Required	(2) Believed Present	(3) Believed Absent	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Avg Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
				Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
1,2-Trans-Dichloroethylene			X												
1,1,1-Trichloroethane			X												
1,1,2-Trichloroethane			X												
Trichloroethylene			X												
Trichlorofluoromethane			X												
Vinyl Chloride			X												
GC/MS FRACTION – ACID COMPOUNDS															
2-Chlorophenol			X												
2,4-Dichlorophenol			X												
2,4-Dimethylphenol			X												
4,6-Dinitro-o-cresol			X												
2,4-Dinitrophenol			X												
2-Nitrophenol			X												
4-Nitrophenol			X												
P-Chloro-m-Cresol			X												
Pentachlorophenol			X												
Phenol			X												
2,4,6-Trichlorophenol			X												
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
Acenaphthene			X												
Acenaphtylene			X												
Anthracene			X												
Benzidine			X												

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WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X"			c. Effluent							d. Units		e. Intake (optional)		
	(1) Testing Required	(2) Believed Present	(3) Believed Absent	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Avg Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
				Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
Benzo (a) Anthracene			X												
Benzo (a) Pyrene			X												
3,4-Benzo-flouranthene			X												
Benzo (ghi) Perylene			X												
Benzo (k) Fluoranthene			X												
Bis (2-Chloroethoxy) Methane			X												
Bis (2-Chloroethyl) Ether			X												
Bis (2-Chloro-isopropyl) Ether			X												
Bis (2-Ethyl-hexyl) Phthalate			X												
4-Bromophenyl Phenyl Ether			X												
Butyl Benzyl Phthalate			X												
2-Chloro-naphthalene			X												
4-Chloropbenyl Phenyl Ether			X												
Chrysene			X												
Dibenzo (a,h) Anthracene			X												
1,2-Dichlorobenzene			X												
1,3-Dichlorobenzene			X												
1,4-Dichlorobenzene			X												
3,3'-Dichloro-benzidine			X												
Diethyl Phthalate			X												
Dimethyl Phthalate			X												
Di-N-Butyl Phthalate			X												

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WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X"			c. Effluent							d. Units		e. Intake (optional)		
	(1) Testing Required	(2) Believed Present	(3) Believed Absent	Maximum Daily Value		Maximum 30 Day Value (if available)		Long Term Avg Value (if available)		No. of Analyses			Long Term Average Value		No. of Analyses
				Conc.	Mass	Conc.	Mass	Conc.	Mass		Conc.	Mass	Conc.	Mass	
2,4-Dinitrotolnene			X												
2,6-Dinitrotoluene			X												
Di-n-Octyl Phthalate			X												
1,2-Diphenyl-hydrazine (as Azobenzene)			X												
Fluoranthene			X												
Fluorene			X												
Hexachlorobenzene			X												
Hexachlorohutadiene			X												
Hexachlorocyclopentadiene			X												
Hexachloroethane			X												
Indeno (1,2,3-cd) Pyrene			X												
Isophorone			X												
Naphthalene			X												
Nitrobenzene			X												
N-Nitrosodimethylamine			X												
N-Nitrosodi-n-Propylamine			X												
N-Nitrosodiphenylamine			X												
Phenanthrene			X												
Pyrene			X												
1,2,4-Trichlorobenzene			X												

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WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X" (1) Testing Required	(2) Believed Present	(3) Believed Absent	c. Effluent Maximum Daily Value Conc.	Maximum Daily Value Mass	Maximum 30 Day Value (if available) Conc.	Maximum 30 Day Value (if available) Mass	Long Term Avg Value (if available) Conc.	Long Term Avg Value (if available) Mass	No. of Analyses	d. Units Conc.	d. Units Mass	e. Intake (optional) Long Term Average Value Conc.	e. Intake (optional) Long Term Average Value Mass	e. Intake (optional) No. of Analyses
GC/MS FRACTION – PESTICIDES															
Aldrin			X												
alpha-BHC			X												
beta-BHC			X												
gamma-BHC			X												
delta-BHC			X												
Chlordane			X												
4,4'-DDT			X												
4,4'-DDE			X												
4,4'-DDD			X												
Dieldrin			X												
alpha-Endosulfan			X												
beta-Endosulfan			X												
Endosulfan Sulfate			X												
Endrin			X												
Endrin Aldehyde			X												
Heptachlor			X												
Heptachlor Epoxide			X												
PCB-1242			X												
PCB-1254			X												
PCB-1221			X												
PCB-1232			X												

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WATER QUALITY DIVISION

Outfall No. 002

a. Pollutant	b. Mark "X" (1) Testing Required	(2) Believed Present	(3) Believed Absent	c. Effluent Maximum Daily Value Conc.	Maximum Daily Value Mass	Maximum 30 Day Value (if available) Conc.	Maximum 30 Day Value (if available) Mass	Long Term Avg Value (if available) Conc.	Long Term Avg Value (if available) Mass	No. of Analyses	d. Units Conc.	d. Units Mass	e. Intake (optional) Long Term Average Value Conc.	e. Intake (optional) Long Term Average Value Mass	e. Intake (optional) No. of Analyses
PCB-1248			X												
PCB-1260			X												
PCB-1016			X												
Toxapheue			X												
ADDITIONAL PARAMETERS															
2,4,5-TP			X												
Silvex			X												
2,4,6-Trinitrotoluene			X												
2,4-D Butylbenzyl			X												
Chlorpyrifos (Dursban)			X												
Demeton			X												
Detergents (total)			X												
Endosulfan			X												
Guthion			X												
Hexahydro-1,3,5-tri-nitro-1,3,5-triazine (RDX)			X												
Malathion			X												
Methoxychlor			X												
Methylene Blue Active Substances			X												
Mirex			X												
Parathion			X												
PCBs, total			X												
Phthalate Esters (except Butylbenzyl)			X												

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Outreach Laboratory
311 North Aspen
Broken Arrow, OK 74012
(918) 251-2515
FAX (918) 251-0008

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L 2284 Testing

NJ OK001

Case Narrative

Lab No: 20141324

This report contains the analytical results for the 1 sample(s) received under chain of custody by Outreach Laboratory on 12/10/14 16:32:05. These samples are associated with your project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below:

The test results in this report meet all NELAC requirements unless noted below:

This report shall not be reproduced, except in full, without the written approval of Outreach Laboratory.

All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client.

Observations / Nonconformances

Sample(s) was collected in accordance with the client's sampling plan.

Observations / Nonconformances

This report has been amended from the original submitted on 12/19/14. TOC was requested by the customer via phone on 01/02/15. No other changes have been made to this report.

Observations / Nonconformances

The BOD for this project was subcontracted to Green Country Testing and the QC for that analysis accompanies the analytical report on a separate page.

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Outreach Laboratory
311 North Aspen
Broken Arrow, OK 74012
(918) 251-2515
FAX (918) 251-0008

Client: Superior Environmental Compliance, Inc.
Client Project:
Lab Number: 20141324
Date Reported: 01/06/15
Date Received: 12/10/14

Analytical Report

	Method	Result	DL	LOD	LOQ	Units	Qual.	Prep Date	Analysis Date	Analyst
Lab ID:	**20141324-01**									
Client ID:	**Pond F06**									
Date Sampled:	**12/10/14 16:04:00**									
Matrix:	**NPW**									
	Inorganics Analyses									
Ammonia as N	SM 4500-NH3 B-D	0.9	0.2			mg/l as N		12/13/14	12/15/14	RT
Biochemical Oxygen Demand	SM 5210 B	16.0	3.00			mg/l			12/11/14 14:00:00	OL
Chloride	SM 4500-Cl C	289	4			mg/l			12/18/14	RT
Chemical Oxygen Demand	HACH 8000/SM 5220 D	48.4	5			mg/l		12/18/14	12/18/14	RT
pH	SM4500-H B	9.95				SI			12/10/14 16:09:00	RT
Sulfate	ASTM D 516-90	224	10			mg/l			12/18/14	RT
Total Dissolved Solids	SM 2540 C	982	5			mg/l			12/10/14 17:21:00	RT
Temperature	SM 2550 B	7.0				degree s C			12/10/14 16:04:00	RT
Total Organic Carbon (TOC)	EPA 9060A/SM 5310C	18.9	1			mg/l			01/05/15	RT
Total Suspended Solids	SM 2540 D	5.1	0.2			mg/l			12/12/14 17:36:00	RT
	Organics Analyses									
Oil & Grease	EPA 1664A	BDL	5			mg/l		12/15/14	12/15/14	RT

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*NELAC Certified Parameter BDL = Below Detection Limit

Outreach Laboratory
311 North Aspen
Broken Arrow, OK 74012
(918) 251-2515
FAX (918) 251-0008

Client: Superior Environmental Compliance, Inc.
Client Project:
Lab Number: 20141324
Date Reported: 01/06/15
Date Received: 12/10/14

QC Report

Parameter	Blank	LCS %REC	LCSD %REC	LCSD RPD	DUP RPD	RER, NAD or DER	MS %REC	MSD %REC	MSD RPD	Date
Ammonia as N	0.06	95.3			1.2		106.0			12/15/14
Chemical Oxygen Demand	2.2	99.6			2.9		98.2			12/18/14
Chloride	0.0	108.0			0.8		112.0			12/18/14
Oil & Grease	0.8	92.8					90.3	92.7	3.8	12/15/14
Sulfate	-0.4	99.6			2.2		97.4			12/18/14
Total Dissolved Solids	2	101.0			2.3		99.6			12/10/14
Total Organic Carbon (TOC)	0.3	101.0			0.5		85.9			01/05/15
Total Suspended Solids	-0.1				8.2					12/09/14

Lab Approval: _____

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*NELAC Certified Parameter BDL = Below Detection Limit

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

QC SUMMARY REPORT

WO#: **1412166**
16-Dec-14

Client: Outreach Laboratories
Project: 20141323/24 **TestNo:** **A5210B, 2011**

Sample ID **MB-4054**	SampType: **MBLK**	TestCode: **BOD5**	Units: **mg/L**	Prep Date: **12/11/2014**	RunNo: **14559**
Client ID: **PBW**	Batch ID: **4054**	TestNo: **A5210B, 2011** -		Analysis Date: **12/11/2014**	SeqNo: **171319**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	< 3.00	3.00									

Sample ID **LCS-4054**	SampType: **LCS**	TestCode: **BOD5**	Units: **mg/L**	Prep Date: **12/11/2014**	RunNo: **14559**
Client ID: **LCSW**	Batch ID: **4054**	TestNo: **A5210B, 2011** -		Analysis Date: **12/11/2014**	SeqNo: **171320**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	190	3.00	198.0	0	96.0	94	110				

Sample ID **1412166-002ADUP**	SampType: **DUP**	TestCode: **BOD5**	Units: **mg/L**	Prep Date: **12/11/2014**	RunNo: **14559**
Client ID: **20141324-01**	Batch ID: **4054**	TestNo: **A5210B, 2011** -		Analysis Date: **12/11/2014**	SeqNo: **171323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	16.0	3.00						16.00	0	5.7	

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

CHAIN OF CUSTODY

Outreach Laboratory
Reaching beyond the standard.
311 North Aspen
Broken Arrow, OK 74012
Phone: (918) 251-2515
Fax: (918) 251-0008
www.outreachlab.com

RESULTS TO:
Company SUPERIOR ENVIRONMENTAL COMPLIANCE
Name RANDY BEESON
Address 1640 S. 101st E. AVE.
City TULSA State OK Zip 74128
Phone 918-739-4780 Fax: 918-739-4799
Data (Email only) Hardcopy Lvl 2 or Lvl 4* EDD*
Email address randy.beeson@secompliance.com

BILL TO:
PO# _____ Send by mail or email
Company SAME
Name _____
Address _____
City _____ State _____ Zip _____
Phone _____
Email address _____

ANALYSIS REQUESTED

Project: _____
Requested Turnaround Time*: _____
Sample/cooler Return address*? _____
Sampler signature Raymond Thomas

Client Sample ID	Date Sampled	Time Sampled	Matrix	# Containers	Container Size Plastic or Glass	Preservative # 1. Ice <4°C 2. HNO_3 pH<2 3. HCl pH<2 4. H_2SO_4 pH<2 5. NaOH pH>11 6. None	pH, Temp	BOD	TSS, TDS	Sulfate, Chloride	Ammonia, COD	O&G				Remarks (i.e. Filtered, Unfiltered, Grab, Composite)
Pond F06	12/10/14	16:04	PNW	8	↑		/	/	/	/	/	/				

RECEIVED JAN 13 2015 WATER QUALITY DIVISION

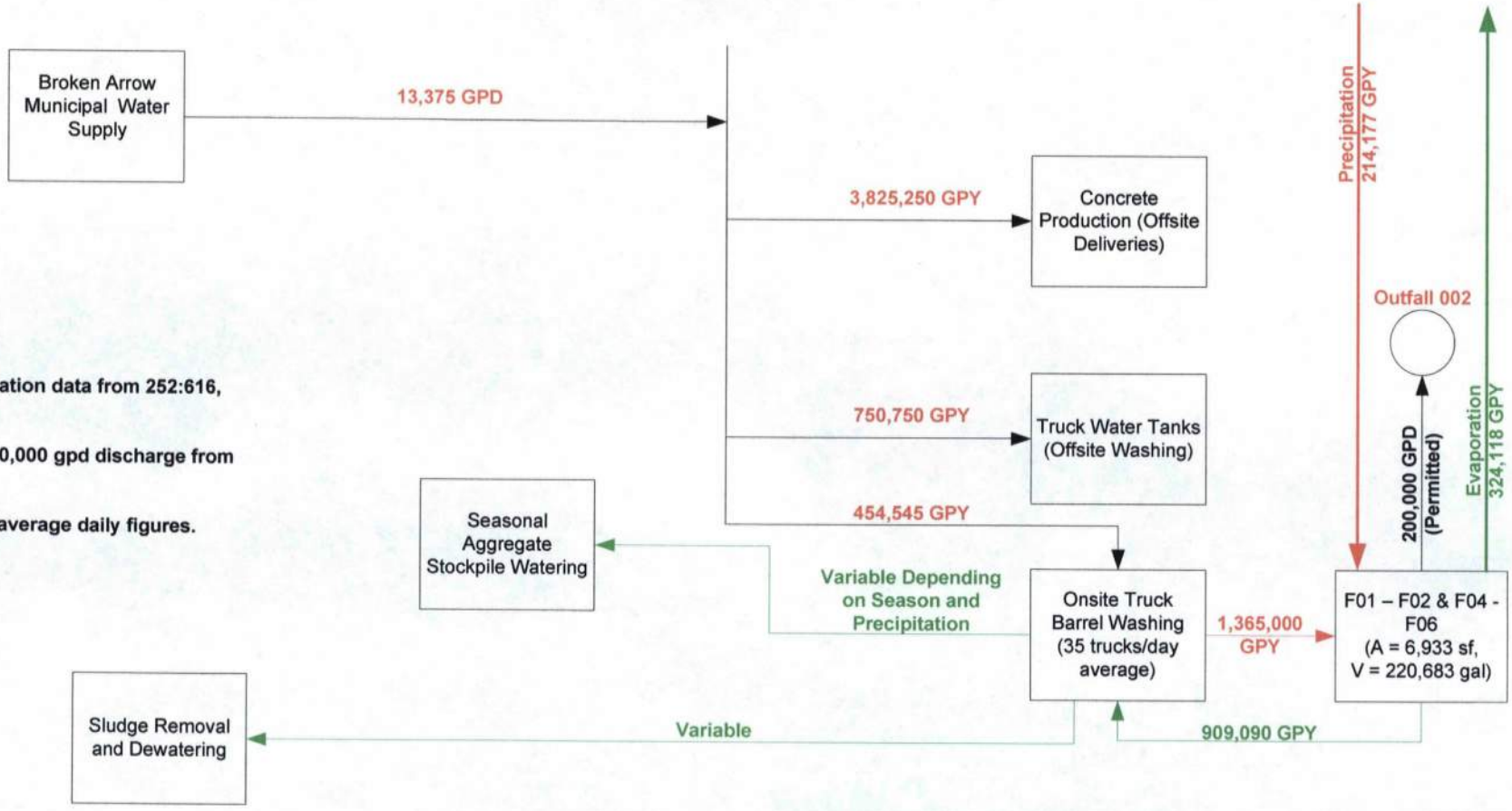
RELINQUISHED BY Raymond Thomas DATE 12/10/14 TIME 16:25 RECEIVED BY: [signature] DATE 12/10/14 TIME 1625

RELINQUISHED BY _____ DATE _____ TIME _____ RECEIVED BY: _____ DATE _____ TIME _____

Method of Transport: hand delivery
Sample Condition Upon Receipt: good
Custody Seals Intact: (Y) N
Cooler Temperature: 7°C
Lab Project # 201413254
Page 1 of 1 MHizlolin

My signature on this chain of custody form indicates that I am authorized by the above company to release samples for analysis. The company agrees to pay the entire balance upon receipt of sample data and it is understood and agreed that any balance carried over thirty (30) days is subject to a 1.5% per month (18% per annum) late charge. In the event of default, the company becomes legally liable for any reasonable attorney and/or collection fees and all related costs necessary to remit the entire balance to OutreachTechnologies, Inc. (Outreach Laboratory).
*Additional charges apply for non-standard turn-times and EDD formats, for hardcopies, Level 4 data pkgs, and radioactive sample disposal or return

Greenhill Concrete Products, Inc., Broken Arrow, OK



NOTES:

Precipitation and evaporation data from 252:616, App. C.

Current permit allows 200,000 gpd discharge from F06.

Water usage figures are average daily figures.

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SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Figure 3

Water Use Line Drawing

October 13, 2014

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

January 16, 2015

Matt Richie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, LLC – Broken Arrow
P.O. Box 10
Catoosa, Oklahoma 74015

RE: OPDES Permit Modification Application, Permit No. OK0045781
Sherwood Construction Company, Inc. dba Greenhill Concrete Products, LLC,
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to discharge wastewater was received by this office on October 20, 2014. On November 20, 2014, an incomplete letter was sent to you requesting application Form 2SI and Form 2C. The requested items were received on January 16, 2015. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be administratively complete.

Please note that additional information may be requested at a later date to clarify, modify, or supplement information already provided in this application. Requests for such additional information will not render your application incomplete.

Thank you for your cooperation. If you have any questions concerning this submittal or DEQ permitting procedures, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Brandon Tyler
Industrial Permits Section
Water Quality Division

CMP/BT/ab DM

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

February 13, 2015

Matt Richie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow
P.O. Box 10
Catoosa, Oklahoma 74015

RE: OPDES Permit Modification Application, Permit No. OK0045781
Sherwood Construction Company, Inc. dba Greenhill Concrete Products, Inc.,
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Mr. Ritchie:

Please find enclosed a copy of the draft permit that the Oklahoma Department of Environmental Quality (DEQ) has developed for your facility. The statement of basis explaining the basis for the permit conditions is also enclosed. These materials are being sent to you as a courtesy for your review prior to publicly noticing the draft permit.

If you have any questions or comments or wish to request a meeting to discuss the terms of the draft permit, please contact Brandon Tyler by email at brandon.tyler@deq.ok.gov or by phone at (405) 702-8215 within 15 days of receiving this letter.

If we do not hear from you within the above time frame, the DEQ will proceed with the issuance process. Thank you for your cooperation.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

Enclosures

CMP/BT/TJ DM

AUTHORIZATION TO DISCHARGE UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NUMBER: OK0045781
ID NUMBER: I-72002620

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. §2-6-201 *et seq.*, Oklahoma Uniform Environmental Permitting Act, 27A O.S. §2-14-101 *et seq.*, and the rules of the Oklahoma Department of Environmental Quality promulgated thereunder,

Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow
1640 S. 101st East Ave.
Tulsa, OK 74128

is authorized to discharge from their facility, located in the:

SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM
Tulsa County, Oklahoma
or at 1601 E. Houston Ave., Broken Arrow, OK 74012

to receiving waters identified as: unnamed tributary of Broken Arrow Creek, stream segment 120410, Water Body ID OK120410010200, in Tulsa County, Oklahoma

from: Outfall 002:

Latitude 36° 02' 32.2" N, Longitude 95° 46' 8.8" W (GPS: NAD83)
SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM,
Tulsa County, Oklahoma

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III, hereof.

The above referenced facility is also authorized to retain wastewater in two flow-through surface impoundments (F01, F02, F04, F05 and F06), as described in the Appendix. Surface impoundments shall be maintained in accordance with Parts I, II, and IV, hereof.

Issuance of this permit in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal and/or discharges of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and Department Rules.

This permit replaces and/or supersedes OPDES Permit No. OK0045781 that became effective on July 1, 2014 and expires June 30, 2015.

This permit shall become effective on .

This permit and the authorization to operate the disposal system shall expire at midnight, on .

This is to certify that the wastewater discharges set forth in this permit comply with the requirements of Oklahoma's Water Quality Standards, as amended, provided the permittee does not exceed the effluent limitations set forth in this permit.

Issued this _____ day of _____, 2015.

For Oklahoma Department of Environmental Quality,

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

Shellie Chard-McClary, Director
Water Quality Division

PART I
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall 002

Limitations, Reporting Requirements and Monitoring

During the period beginning the effective date and lasting through the expiration date, the permittee authorized to discharge from Outfall 002. The discharge will consist of process wastewater and associated stormwater runoff from the following three common activities: (1) mix plant area washdown, (2) truck mixer drum washout, and (3) external truck washing.

Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Limitations – Outfall 002

PARAMETERS	DISCHARGE LIMITATIONS			
	MASS LOADING LIMITS (lbs/day unless otherwise specified)		CONCENTRATION LIMITS (mg/L unless otherwise specified)	
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM
Flow STORET: 50050	Report (MGD)	Report (MGD)	--	--
Total Suspended Solid (TSS) STORET: 00530	--	--	Report	40
Oil and Grease STORET: 00552	--	--	Report	15
pH STORET: 00400	N/A	N/A	between 6.5 and 9.0 s.u.	

Monitoring Requirements – Outfall 002

PARAMETERS	MEASUREMENT FREQUENCY *	SAMPLE TYPE
Flow	1/Month	Estimate
Total Suspended Solids	1/Month	Grab
Oil and Grease	1/Month	Grab
pH	1/Month	Grab

* When discharging.

NOTE: See Parts II and III for Additional Requirements.

There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of watercourses. Surface waters of the State shall be maintained free from oil and grease and taste and odors.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings.

Samples for Outfall 002 taken in compliance with the monitoring requirements specified above shall be taken at the following location:

Outfall 002: At the pipe outlet of surface impoundment F06 and prior to discharging to the unnamed tributary of Broken Arrow Creek located in the SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM, Tulsa County, Oklahoma, or at Latitude 36° 02' 32.2"N, Longitude 95° 46' 8.8"W (GPS: NAD83).

SECTION B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule: None.

SECTION C. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III. E.4 of the permit. Monitoring results obtained during the previous month shall be summarized and reported on the Discharge Monitoring Report (DMR) forms due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section postmarked or received no later than the 15th day of the following month. If no discharge occurs during the reporting period, DMR forms stating "No Discharge" shall be submitted according to the above schedule.

The first report is due on __.

PART II
OTHER PERMIT REQUIREMENTS

A. REGULATORY NOTICE

The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements, and any and all amendments of the laws of the state of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the Director's approval, grant and issuance of this permit, permittee acknowledges receipt of true, correct, and current copies of Oklahoma's Water Quality Standards, and the rules of the Oklahoma Department of Environmental Quality, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.

B. REOPENER CLAUSE

This permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a Total Maximum Daily Load is established for the receiving stream(s), or when required as technology. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

C. LABORATORY CERTIFICATION

All laboratory analyses for the parameters specified in this permit must be performed by a laboratory certified by the Oklahoma Department of Environmental Quality for those parameters.

D. ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, effluent and/or upstream monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136 in effect on the effective date of this permit. Appendices A, B, and C to 40 CFR Part 136 are specifically referenced as part of this requirement. Amendments to 40 CFR Part 136 promulgated and incorporated by reference into OAC 252:606 after the effective date of this permit shall supersede these requirements as applicable.

E. SURFACE IMPOUNDMENT REQUIREMENTS

A minimum freeboard of one (1) foot for surface impoundments F01, F02, F04, F05, and F06 shall be maintained.

The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; additional monitoring and reporting (including but not necessarily limited to soil sampling); reclassification of wastes; sludge management plans; best management practices; closure plans; remediation and/or remediation plans; monitoring wells and/or subsurface monitoring plans; and/or other appropriate actions.

At such time as surface impoundments F01, F02, F04, F05, and/or F06 are to be permanently taken out of service or at such time as the contents of F01, F02, F04, F05, and/or F06 pose a risk to the environment or waters of the state, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.

In all other respects, F01, F02, F04, F05, and/or F06 shall be subject to standard conditions for surface impoundment contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring, and closure.

F. LAND APPLICATION

Not Applicable

G. OTHER DISPOSAL METHODS

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewater shall be disposed of in a state approved industrial waste disposal site or to a company for recycling.

If any such industrial wastes are removed from the facility, the permittee shall keep accurate records which include the following information:

a. Name and address of company hauling waste.
b. The type and amount of waste hauled.
c. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the staff of the Department for inspection, review, and copying.

APPENDIX

Description of Wastewater Treatment/Disposal Surface Impoundments (S.I.s)

Classification OAC 252:616-1-2		Liner Requirements OAC 252:616-7-2(b)	Holding Capacity and/or Dimensions OAC 252:616-7-1(6) [b]	Wastewater Destination
S.I. [a]	Wastewater			
F01	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	59,252 gallons 30' x 102' x 6'	F03 and F06
F02	Wastewater from the truck washout area and associated storm water runoff Class II	Concrete	25,761 gallons 24' x 36' x 6'	F03 and F06
F04	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	5,350 gallons 11' x 25' x 5.2'	F03 and F06
F05	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	12,934 gallons 29.2' x 32' x 2.25'	F03 and F06
F06	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	47,127 gallons 30' x 60' x 3.5'	Outfall 002

[a] Designation F refers to a flow-through surface impoundment.
[b] Based on information provided in application. Freeboard requirements in Part I.D.5 must be met.

Location of Surface Impoundments

S.I.	Legal Location	General Location and Description
F01	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located southwest corner of the facility and south side of the concrete batch plant
F02	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located east of the concrete batch plant and approximately 120 feet north of the maintenance building.
F04	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 300 feet east of the maintenance building.
F05	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 120 feet north of F02.
F06	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 50 feet south of F01.

STATEMENT OF BASIS

STATEMENT OF BASIS FOR THE DRAFT AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM (OPDES).

ODEQ Permit No.:	OK0045781
Facility ID No.:	I-72002620
Applicant:	Sherwood Construction Company, Inc. DBA Greenhill Concrete Products, Inc – Broken Arrow 1640 S. 101st E. Ave. Tulsa, OK 74128
Issuing Office:	Oklahoma Department of Environmental Quality Water Quality Division 707 N. Robinson P.O. Box 1677 Oklahoma City, OK 73101-1677
Prepared By:	Brandon Tyler Industrial Permits Section
Date Prepared:	January 16, 2014
Reviewed by:	Carol Paden, P.E., Manager Industrial Permits Section
Permit Action:	Renewal of a OPDES Discharge Permit

In accordance with 40 CFR 124.8 and 124.56, this fact sheet describes the applicant's facility operation and sets forth the principal facts and the significant factual, legal, methodological, and policy questions considered in preparing the draft permit modification. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to applicable effluent limitation guidelines or performance standard provisions as required under 40 CFR 122.44. In accordance with 40 CFR 122.44(l), proposed permit limits for reissued permits are based on the more stringent of applicable technology-based limitations, applicable water quality-based limitations, or limitations in the previous permit.

Citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations. Citations to OAC 252 and OAC 785 refer to promulgated regulations listed at Titles 252 and 785, Oklahoma Administrative Code.

I. PERMITTING BACKGROUND

A. CHRONOLOGY OF PERMITTING ACTIVITIES

The following is a chronology of permitting activities leading up to the renewal of this permit

- 01/16/2015 Complete letter sent to the facility
- 01/13/2015 Response to incomplete letter received
- 11/20/2014 Second incomplete letter sent
- 10/29/2014 Proof of publication received
- 10/27/2014 Incomplete letter sent
- 10/23/2014 Site visit
- 10/20/2014 Receipt of renewal application

B. PROPOSED PERMITTING ACTION

It is proposed that the OPDES Permit No. OK0045781 permit be reissued for a 5-year term in accordance with regulations promulgated at 40 CFR 122.46(a) and OAC 252:606-1-3(b).

II. APPLICANT ACTIVITY

A. DESCRIPTION AND LOCATION OF FACILITY

Greenhill Concrete Products, Inc. (formerly Arrow Concrete Company) is a ready-mix concrete processing facility (SIC 3273) located in the SE¼, NW¼, NE¼ of Section 13, Township 18N, Range 14EIM, Tulsa County Oklahoma.

B. WASTEWATER GENERATION AND TREATMENT

1. Process Wastewater

Based on the permit application, the facility discharges a maximum of 458,000 GPD of treated process wastewater via Outfall 002 to an unnamed tributary of Broken Arrow Creek.

Process wastewater treatment is comprised of settling of solids and pH adjustment in flow-through surface impoundments F01, F02, F04, F05, and F06.

2. Sanitary Wastewater

Based on the permit application, the facility discharges it's sanitary wastewater to the City of Broken Arrow Public Operated Treatment Works (POTW) for treatment.

III. DISCHARGE INFORMATION

A. DISCHARGE LOCATION

The discharge is to an unnamed tributary of Broken Arrow Creek, located in stream segment 120410 of the Middle Arkansas River Basin. Based on the application, the facility has one outfall and is summarized below:

Outfall	Location		Receiving Stream
	Legal Description	Latitude -Longitude	
002	SE¼, NW¼, NE¼ Sect 13, T18N, R14EIM Tulsa Co., Oklahoma	N 36° 02' 32.2" W 95° 46' 8.8" (GPS: NAD83)	Unnamed tributary of Broken Arrow Creek

B. DISCHARGE DESCRIPTION AND CHARACTERISTICS

Outfall 002: The discharge consists of process wastewater from a concrete batch plant.

a. DMR Data (November 2012 – November 2014)

Effluent Flow (MGD)

Outfall	Frequency of Discharge	Type of Measurement	Long Term Avg	High 30-day Avg	Daily Max
002	Intermittent	Record	0.0402	0.0599	0.1249

Conventional, Non-Conventional, and Priority Pollutants

Parameters	Mass Loadings (lbs/day unless otherwise specified)		Concentration/Other Units (mg/l unless otherwise specified)	
	Daily Maximum	Long-term Average	Daily Maximum	Long-term Average
Oil & Grease	---	---	30.5	8.76
Total Suspended Solids	---	---	6.6	5.11
pH	Between 6.08 – 11.2 s.u.			

b. ODEQ Application Data

Effluent Flow (MGD)

Outfall	Frequency of Discharge	Type of Measurement	Long Term Avg	High 30-day Avg	Daily Max
002	Continuous	Record	0.0641	0.458	0.458

Conventional, Non-Conventional, and Priority Pollutants

Parameter	No. of Analyses	Daily Maximum [1]	
		Concentration (mg/l)	Mass (lb/day)
BOD_5	1	16.0	---
COD	1	48.4	---
TOC	1	18.9	---
TSS	1	255	---
Ammonia (as N)	1	0.9	---
Total Dissolved Solids	1	982	---
Chloride	1	289	---
Sulfate	1	224	---
Oil and Grease	1	30.5	---

[1] ODEQ application data, Form 2C.

IV. RATIONALE FOR DETERMINING DISCHARGE PERMIT LIMITS

The following sections set forth the principal facts and the significant factual, legal, methodological, and policy considered in preparing the draft permit. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to the applicable effluent limitation guideline or performance standard provisions as required under 40 CFR 122.44, and reasons why they are applicable or an explanation of how the alternative effluent limitations were developed.

In accordance with regulations promulgated at 40 CFR 122.44(l), the draft permit limits are based on the more stringent of technology-based limitations, applicable water quality-based limitations, or the previous permit limits.

A. Technology-Based Effluent Limitations And Conditions

1. General Comments

Regulations promulgated in 40 CFR 122.44(a) and OAC 252:606-5-2(a)(1) require technology-based effluent limitations to be placed in OPDES permits based on effluent limitations guidelines, where applicable, on Best Professional Judgment (BPJ) in the absence of guidelines, or on a combination of the two.

2. Applicable Effluent Limitations Guidelines

Technology-based effluent limitations and conditions have not been promulgated for this industry.

3. Best Professional Judgment of the Permit Drafter

Under authority of the Clean Water Act and State laws, the State has developed this permit on a case specific basis since ELG's have not been developed for this industry. The Daily Maximum and Monthly Average concentrations and applicable loading limitations for these parameters are either Best Practicable Control Technology Current Available (BPT), Best Available Technology Economically Achievable (BAT), or Best Conventional Pollutant Control Technology (BCT) based on BPJ, using previous State and NPDES permits and the facility's past performance as guidance.

BPT, BAT, and BCT effluent limitations for Outfall 002 are shown in the following table.

BPT, BAT, and BCT Effluent Limitations – Outfall 002

Parameters	Monthly Average, mg/l	Daily Maximum., mg/l
Oil and Grease	Report	15
Total Suspended Solids	Report	40

4. Variance Request

No requests for variances from effluent limitations promulgated under 40 CFR have been received.

B. WATER-QUALITY-BASED EFFLUENT LIMITATIONS AND/OR CONDITIONS

1. General Comments

Section 101 of the Clean Water Act (CWA) states that "... it is the national policy that the discharge of toxic pollutants in toxic amounts be prohibited...." A permit containing technology-based permit limitations alone may not adequately protect the quality of a specific receiving stream. Thus, additional water quality-based effluent limitations and/or conditions are considered in the draft permit using narrative and numerical standards contained in the Oklahoma Water Quality Standards (OWQS), as amended (OAC 785:45), and implementation criteria contained in OAC 785:46 and 252:690, promulgated by the Oklahoma Water Resources Board (OWRB) and the Department of Environmental Quality (DEQ), respectively. This is to ensure that no point-source discharge results in instream aquatic toxicity, a violation of applicable narrative or numerical State water quality standards, or aquatic bioaccumulation which threatens human health.

2. Receiving Stream Designated Uses And Antidegradation Provisions

a. Designated Beneficial Uses

Outfall 002 discharges to an unnamed tributary of Broken Arrow Creek (WBID 120410010200) in Segment 120410 of the Middle Arkansas River Basin. As designated in Appendix A of the OWQS, the designated uses of the of the receiving stream in this segment are:

Fish and Wildlife Propagation/Warm Water Aquatic Community (OAC 785:45-5-12);
Agriculture (OAC 785:45-5-13);
Primary Body Contact Recreation (OAC 785:45-5-16);
Aesthetics (OAC 785:45-5-19); and
Fish Consumption (OAC 785:45-5-20).

b. Antidegradation Provisions

The unnamed tributary to Broken Arrow Creek is not designated as an Outstanding Resource Water (ORW), High Quality Water (HQW), or Sensitive Water Supply (SWS) in Appendix A of the OWQS. Neither is it designated in Table 1 of Appendix B of the OWQS as an area of ecological and/or recreational significance or in Table 2 of Appendix B as an area containing federally-listed endangered species.

3. Water Quality Standards Implementation Process

To achieve the objectives stated in Section IV.B.1 above, each pollutant present at measurable levels in the facility's effluent, for which there is one or more applicable numerical water quality criteria, is screened against the applicable criteria to determine whether the pollutant has reasonable potential (RP) to

exceed any of the criteria. The screens are performed in accordance with the OWQS, OWQS implementation criteria in OAC 785:46 and OAC 252:690, and the Continuing Planning Process (CPP) document. In the RP screening process, the 95th percentile effluent concentration, or estimate thereof if the effluent data set is not sufficiently large to determine it directly, is used to compute an instream concentration according to the regulatory mixing zone equations defined in OAC 785:46. The computed instream concentrations are then compared with the applicable criteria to determine whether RP is exhibited. However, after reviewing the application for this facility it was determined that there were no pollutants present at or above the applicable water quality criteria; therefore RP calculations are not needed.

4. Water Quality-Based Requirements By Designated Use

a. Fish and Wildlife Propagation/Warm Water Aquatic Community

(1) Dissolved Oxygen

Pursuant to OAC 785:45-5-12(f)(1)(A), dissolved oxygen (DO) criteria are designed to protect the diverse aquatic communities of Oklahoma. Based on the nature of the wastewater, the wastewater should not contain oxygen demanding substances at levels which would have reasonable potential to violate numerical criteria. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(2) Temperature

According to OAC 785:45-5-12(f)(2)(A), at no time shall heat be added to any surface water in excess of the amount that will raise the temperature of the receiving water more than 2.8°C at the edge of the mixing zone. Since heat is not added to the wastewater being discharged and discharge should essentially be at ambient temperature, there is no reasonable potential to violate temperature criterion. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(3) pH

OAC 785:45-5-12(f)(3) states, "the pH values shall be between 6.5 and 9.0 in waters designated for fish and wildlife propagation; unless pH values outside that range are due to natural conditions." Therefore, the draft permit establishes a lower pH limit of 6.5 standard units and an upper limit of 9.0 standard units.

(4) Oil and Grease

According to OAC 785:45-5-12(f)(4), "all waters having the designated beneficial use of any subcategory of Fish and Wildlife Propagation shall be maintained free of oil and grease to prevent a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of watercourses or which cause deleterious effects to the biota." A narrative (water quality-based) condition requiring conformance to OAC 785:45-5-12(f)(4) is included in the draft permit. In addition, a daily maximum concentration limit of 15 mg/l for oil and grease will be placed in the draft permit for Outfall 002 to implement the narrative criteria of "no visible sheen".

(5) Biological Criteria

Pursuant to OAC 785:45-5-12(f)(5), aquatic life in all water bodies with the beneficial use designation of Fish and Wildlife Propagation (excluding waters designated "Trout, put-and-take") shall not exhibit degraded conditions. Based on the nature of the wastewater, the treated wastewater is not expected to degrade the diversity, similarity, community structure, species tolerance, trophic structure, dominant species, indices of biotic integrity, indices of well being, or other measures. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(6) Toxic Substances

In accordance with OAC 785:45-5-12(f)(6)(A), surface waters of the state shall not exhibit acute toxicity and shall not exhibit chronic toxicity outside the chronic regulatory mixing zone. Based on the permit application, the discharge does not contain toxic substances at levels that could result in acute or chronic toxicity to fish or wildlife. Since the facility is a minor discharger, whole effluent toxicity (WET) testing is not required.

(7) Turbidity

OAC 785:45-5-12(f)(7) states that turbidity from other than natural sources shall be restricted so as not to exceed the numeric limit of 50 NTUs for surface waters that have a beneficial use of Warm Water Aquatic Community. The draft permit includes a technology-based limitation for TSS (a daily maximum limit of 40 mg/L) and a water quality-based narrative requirement for suspended solids. It is the BPJ of the permit writer that limitation on TSS should adequately control turbidity in the facility's discharge.

b. Protection of Agriculture Use

Per information provided in the permit application, the discharge does not contain chlorides, sulfates, or total dissolved solids at levels which would require water quality limitation and/or monitoring.

c. Primary Body Contact Recreation

Per information provided in the permit application, the discharge does not contain any sanitary waste. Therefore, coliform bacteria, escherichia coli (E. coli), and/or enterococci are not expected to be present at levels which would require water quality limitation and/or monitoring.

OAC 785:45-5-16(a) states "The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings." The draft permit will contain a narrative stating the prohibition of these conditions for Outfall 002.

d. Protection of Aesthetics Use

Aesthetics use is determined in accordance with OAC 785:45-5-19, which states, "the surface waters of the state must be free from floating materials and suspended substances that produce objectionable color and turbidity." A narrative requirement is established in the draft permit to prohibit the discharge of floating solids or visible foam in other than trace amounts. In addition, the technology-based numerical effluent limitations of a 40 mg/L daily maximum for TSS should also help to maintain the narrative water quality criteria for TSS.

e. Fish Consumption

In accordance with OAC 785:45-5-20(a), "surface waters of the state shall be maintained so that toxicity does not inhibit ingestion of fish and shellfish by humans." Per information provided in the permit application, the discharge does not contain pollutants at levels which would require fish consumption water quality limitation and/or monitoring.

C. Effluent Monitoring Requirements

Since it was determined that there were no pollutants present for which RP calculations would be needed, further effluent monitoring is not justified.

D. 303(d) Listing Evaluation

1. Water Quality Assessment and Causes of Impairment

The segment of Broken Arrow Creek which Outfall 002 discharges to is not listed as an impaired water body on Oklahoma's 2012 303(d) list.

2. 303(d) List-Related Permitting Actions

The permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge(s) to the receiving water(s), a Total Maximum Daily Load is established for the receiving stream(s), new water quality criteria isestablished, or a different technology based guideline is promulgated. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

E. Antidegradation Requirements

As stated in Section V.B, no antidegradation restrictions apply to the segments of a unnamed tributary of Broken Arrow Creek. Implementation of the state's antidegradation policy, as described at OAC 785:46, Subchapter 13, requires no further protection beyond the Tier 1 level (maintenance and protection of designated uses) for these receiving waters.

F. Protection of Endangered and Threatened Species and Critical Habitat

The receiving stream to which the facility discharges is not considered by the U.S. Fish and Wildlife Service (USFWS) to be a sensitive area for endangered or threatened species. Therefore, consultation with the USFWS is not required.

V. NON-DISCHARGE REQUIREMENTS

A. Surface Impoundment

Descriptions of surface impoundments are shown in the table on the following page.

Description of Surface Impoundments (S.I.)

Classification OAC 252:616-1-2		Liner Requirements OAC 252:616-7-2(b)	Holding Capacity and/or Dimensions OAC 252:616-7-1(6)	Wastewater Destination
S.I. (*)	Wastewater			
F01	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	59,252 gallons 30' x 102' x 6'	F03 and F06
F02	Wastewater from the truck washout area and associated stormwater runoff - Class II	Concrete	25,761 gallons 24' x 36' x 6'	F03 and F06
F04	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	5,350 gallons 11' x 25' x 5.2'	F03 and F06
F05	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	12,934 gallons 29.2' x 32' x 2.25'	F03 and F06
F06	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	47,127 gallons 30' x 60' x 3.5'	Outfall 002

(*) Designation F refers to flow-through surface impoundment.

Location of Surface Impoundments

S.I.	Legal Location	General Location and Description
F01	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located southwest corner of the facility and south side of the concrete batch plant
F02	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located east of the concrete batch plant and approximately 120 feet north of the maintenance building.
F04	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 300 feet east of the maintenance building.
F05	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 120 feet north of F02.
F06	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 50 feet south of F01.

1. **Wastewater Classification [OAC 252:616-1-2]**

   The wastewater generated from truck washout and associated stormwater runoff at this facility, was tested in a previous permit for classification. Due to high pH, surface impoundments F01, F02, F05, and F06 were classified as Class I wastewater and F02 was determined to be Class II wastewater.

2. **Freeboard Requirements (OAC 252:616-7-1(7))**

   Pursuant to OAC 252:616-7-1(7), a minimum freeboard of one (1) foot shall be maintained for surface impoundments F01, F02, F04, F05, and F06.

3. **Depth to Groundwater (OAC 252:616-7-1(4)(B))**

   Review of the December 7, 2009 engineering report, shows that the minimum groundwater separation from the bottom of surface impoundments F01, F02, F04, F05, and F06 is approximately 2.5 feet. Since surface impoundments F01, F02, F04, F05, and F06 contain concrete liners, it is the Best Professional Judgment of the permit writer that the depth to groundwater requirement of OAC 252:616-7-1(4) is satisfied.

4. **Liner Requirements (OAC 252:616-7-2(b))**

   Surface impoundments F01, F02, F04, F05 and F06 have a concrete liner. Since the wastewater being retained is Class I and Class II, it is BPJ that concrete liners are an appropriate and compatible liner system in accordance with OAC 252:616-7-2(b).

5. **Additional Requirements (OAC 252:616-11 or OAC 252:616-13)**

   The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.

   At such time as surface impoundments F01, F02, F04, F05 and/or F06 to be permanently taken out of service or at such time as the contents of F01, F02, F04, F05 and/or F06 pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-11 or OAC 252:616-13.

B. LAND APPLICATION

Not applicable.

VI. DRAFT PERMIT LIMITS AND OTHER REQUIREMENTS

A. EFFLUENT LIMITATIONS

Permit requirements are based on OPDES regulations (40 CFR Parts 122, 124, and 136) and OAC 252:606.

Outfall 002

Parameters	Technology-based		Water Quality-based		Previous Permit		Draft Permit	
	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l
Flow (MGD)	---	---	---	Report (MGD)	Report (MGD)	Report (MGD)	Report (MGD)	Report (MGD)
Oil and Grease	15	Report	---	---	15	Report	15	Report
Total Suspended Solids (TSS)	---	---	40	Report	40	Report	40	Report
pH	Between 6.0 – 9.0 s.u.		Between 6.5 - 9.0 s.u.		Between 6.5 - 9.0 s.u.		Between 6.5 - 9.0 s.u.	

Parameters	Draft Permit	
	Frequency	Sample Type
Flow	1/Month	Estimated
Oil and Grease	1/Month	Grab
TSS	1/Month	Grab
pH	1/Month	Grab

B. EVALUATION FOR PERFORMANCE-BASED MONITORING FREQUENCY REDUCTIONS

In accordance with OAC 252:690-91, since the permit does not contain any monthly average limits, performance-based monitoring frequency reductions are not applicable.

VII. SUMMARY OF CHANGES FROM PREVIOUS PERMIT

- No changes made from the previous permit.

VIII. ADMINISTRATIVE RECORD

The following sources were used to prepare this permit and constitute a part of the administrative record for this permit:

A. APPLICATIONS

OPDES Industrial Permit Application No. OK0045781 (Forms 1, 2C, and 2SI), received October 20, 2014.

B. CLEAN WATER ACT CITATIONS

Section 301, 303(d), and 402(a)

C. 40 CFR CITATIONS

40 CFR, in particular, Parts 122, 124, 136

D. STATE LAW, STANDARDS, AND RULES AND REGULATIONS

- Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S., §2-6-201 et seq.
- OAC 252:606, 616, and 690
- Oklahoma's Water Quality Standards, as amended
- Oklahoma Continuing Planning Process Document (CPP)

E. MISCELLANEOUS

- 2012 303(d) list
- The permit file

IX. CERTIFICATION AND FINAL DETERMINATION

A draft permit and draft public notice will be sent to the District Engineer, Corps of Engineers, Oklahoma Conservation Commission, and to the Regional Director of the U.S. Fish and Wildlife Service upon publication of that notice. If comments are received from these agencies or other State or Federal agencies with jurisdiction over fish, wildlife, or public health, the permit may be denied or additional conditions may be included in accordance with regulations promulgated under 40 CFR 124.59.

The public notice describes the procedures for the formulation of final determinations.

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

March 9, 2015

Matt Richie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow
P.O. Box 10
Catoosa, Oklahoma 74015

RE: OPDES Permit Modification Application, Permit No. OK0045781
Sherwood Construction Company, Inc. dba Greenhill Concrete Products, Inc.,
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Mr. Ritchie:

The Oklahoma Department of Environmental Quality (DEQ) has been granted authority to issue permits for the disposal of pollutants in the State of Oklahoma subsequent to Public Notice. In accordance with 27A O.S. § 2-14-302, we are enclosing a draft Notice of Publication that the applicant must review for accuracy and publish in at least one daily or weekly newspaper local to the area affected by the proposed wastewater treatment/disposal facility.

We are also enclosing two copies of the draft permit and statement of basis. One set is for your inspection, and the other set must be placed in the Broken Arrow Library, 300 West Broadway Ave., Broken Arrow, Oklahoma 74012-4407, for viewing by the general public. A copy of the application form you submitted and which was received by the DEQ on October 20, 2014, must also be placed at the above location for viewing by the general public. If you need to obtain a copy of your application, please contact the Central Records Section of the DEQ at (405) 702-1188.

The public comment period will end 30 days after the notice of draft permit is published in a newspaper local to the area where the facility is located or 30 days after DEQ publishes its statewide notice of draft permit, whichever occurs later. All comments and/or requests for a public meeting must be received by this date, unless extended for good cause by the DEQ. If a request for a public meeting has been granted, the applicant will be notified and provided a copy of the request.

PLEASE HAVE THE NEWSPAPER FURNISH THIS OFFICE WITH A CERTIFIED NOTICE OF PUBLICATION. THIS NOTICE MUST BE PUBLISHED WITHIN TEN DAYS OF RECEIPT OF THIS LETTER.

If you have any questions concerning this matter, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/BT/ab DM

Enclosure

NOTE TO PUBLISHERS (not part of Notice to be published): Oklahoma Department of Environmental Quality has no responsibility and assumes no responsibility for the cost of publishing this NOTICE BY PUBLICATION.

NOTICE OF ISSUANCE OF DRAFT TIER II PERMIT

POLLUTANT DISCHARGE(S) APPLICATION NO. OK0045781

Notice is hereby given that the Oklahoma Department of Environmental Quality (DEQ), at the address listed below, has processed and issued a draft permit to **Sherwood Construction Company, Inc. DBA Greenhill Concrete Products, Inc. – Broken Arrow, 1601 E. Houston Street, Tulsa, OK 74012** based on a Tier II application filed on the October 20, 2014, for a renewal permit with the DEQ. A final permit, if issued, would allow Greenhill Concrete Product, Inc. - Broken Arrow to discharge industrial wastewater from their facility, Greenhill Concrete Products, Inc. – Broken Arrow, 1601 E. Houston Street, Tulsa, OK 74012, located in SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM, Tulsa County. Greenhill Concrete Product, Inc. - Broken Arrow is a ready-mix concrete processing facility. The proposed discharge(s) consists of effluent from truck washout area and associated stormwater runoff. The discharge(s) will be to an unnamed tributary of Broken Arrow Creek from Outfall 002 located in SE¼, NW¼, NE¼ Section 13, Township 18N, Range 14EIM Tulsa County, Oklahoma at Latitude 36° 02' 32.2" N, Longitude 95° 46' 8.8" W. The facility also proposes to operate five flow-through impoundments.

A copy of the draft permit, statement of basis, application, and other relevant documents may be reviewed at the Offices of the DEQ, Water Quality Division, 707 N. Robinson, Oklahoma City, OK 73102, between the hours of 8:00 a.m. to 4:30 p.m. Monday – Friday. A copy of the draft permit, statement of basis, and application may be reviewed at the Broken Arrow Library, 300 West Broadway Ave., Broken Arrow, Oklahoma 74012-4407, between the hours of 10:00 a.m. and 8:00 p.m., Monday through Thursday, between the hours of 10:00 a.m. and 5:00 p.m., Friday and Saturday, closed Sunday. A copy of the draft permit may be reviewed on the DEQ website at http://www.deq.state.ok.us/mainlinks/publicpermits.html.

Pursuant to 27A O.S. Sec. 2-14-302, persons wishing to make comments concerning the draft permit may do so by sending the comments in writing to the Contact Person for the DEQ, at the address listed below, within 30 days after the date of publication or mailing. Comments should include: (1) name and address of the interested person, (2) the application name to which the request relates, (3) the nature and basis of the interest of the person affected, and (4) a statement of the objection or comment, the basis of the objection or comment, and any requested action by the DEQ.

The contact person for the DEQ, to schedule a date and time to review the application at the offices of the DEQ is:

Tammi L. Johnson
Oklahoma Department of Environmental Quality
P.O. Box 1677
707 N. Robinson, 8th Floor
Oklahoma City, OK 73101-1677
(405) 702-8170 or tammi.l.johnson@deq.ok.gov

The contact person for Greenhill Concrete Products, Inc. - Broken Arrow is:

Matt Ritchie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow Batch Plant
P.O. Box 10
Catoosa, OK 74128
918-266-6861

Pursuant to 27A O.S. Sec. 2-14-302, persons wishing to request a public meeting concerning the draft permit may do so by filing the request in writing to the Contact Person for the DEQ, at the address listed below, within thirty (30) days after the date of publication or mailing. Requests for the public meeting should include: (1) name and address of the interested person, (2) the application name to which the request relates, (3) the nature and basis of the interest of the person affected, and (4) a statement of the objection or comment, the basis of the objection or comment, and any requested action by the DEQ. A copy of the request must also be sent to the applicant, through the contact person listed below. A formal public meeting may be scheduled if there is a significant degree of public interest. Notice of the date, time and place of the public meeting will be given to all parties of record. A request for a public meeting may be combined with a submission of written comments.

If a public meeting is held, oral or written comments will be accepted at the meeting. The DEQ shall, within ninety (90) days of the date the public comment period closes (or longer if extended by the Executive Director of the DEQ), issue responses to all public comments received.

AUTHORIZATION TO DISCHARGE UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NUMBER: OK0045781
ID NUMBER: I-72002620

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. §2-6-201 *et seq.*, Oklahoma Uniform Environmental Permitting Act, 27A O.S. §2-14-101 *et seq.*, and the rules of the Oklahoma Department of Environmental Quality promulgated thereunder,

Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow
P.O. box 10
Tulsa, OK 74015

is authorized to discharge from their facility, located in the:

SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM
Tulsa County, Oklahoma
or at 1601 E. Houston Ave., Broken Arrow, OK 74012

to receiving waters identified as: unnamed tributary of Broken Arrow Creek, stream segment 120410, Water Body ID OK120410010200, in Tulsa County, Oklahoma

from: Outfall 002:

Latitude 36° 02' 32.2" N, Longitude 95° 46' 8.8" W (GPS: NAD83)
SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM,
Tulsa County, Oklahoma

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III, hereof.

The above referenced facility is also authorized to retain wastewater in two flow-through surface impoundments (F01, F02, F04, F05 and F06), as described in the Appendix. Surface impoundments shall be maintained in accordance with Parts I, II, and IV, hereof.

Issuance of this permit in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal and/or discharges of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and Department Rules.

This permit replaces and/or supersedes OPDES Permit No. OK0045781 that became effective on July 1, 2014 and expires June 30, 2015.

This permit shall become effective on .

This permit and the authorization to operate the disposal system shall expire at midnight, on .

This is to certify that the wastewater discharges set forth in this permit comply with the requirements of Oklahoma's Water Quality Standards, as amended, provided the permittee does not exceed the effluent limitations set forth in this permit.

Issued this _____ day of _____, 2015.

For Oklahoma Department of Environmental Quality,

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

Shellie Chard-McClary, Director
Water Quality Division

PART I
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall 002

Limitations, Reporting Requirements and Monitoring

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002. The discharge will consist of process wastewater and associated stormwater runoff from the following three common activities: (1) mix plant area washdown, (2) truck mixer drum washout, and (3) external truck washing.

Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Limitations – Outfall 002

PARAMETERS	DISCHARGE LIMITATIONS			
	MASS LOADING LIMITS (lbs/day unless otherwise specified)		CONCENTRATION LIMITS (mg/L unless otherwise specified)	
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM
Flow STORET: 50050	Report (MGD)	Report (MGD)	--	--
Total Suspended Solid (TSS) STORET: 00530	--	--	Report	40
Oil and Grease STORET: 00552	--	--	Report	15
pH STORET: 00400	N/A	N/A	between 6.5 and 9.0 s.u.	

Monitoring Requirements – Outfall 002

PARAMETERS	MEASUREMENT FREQUENCY *	SAMPLE TYPE
Flow	1/Month	Estimate
Total Suspended Solids	1/Month	Grab
Oil and Grease	1/Month	Grab
pH	1/Month	Grab

* When discharging.

NOTE: See Parts II and III for Additional Requirements.

There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of watercourses. Surface waters of the State shall be maintained free from oil and grease and taste and odors.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings.

Samples for Outfall 002 taken in compliance with the monitoring requirements specified above shall be taken at the following location:

Outfall 002: At the pipe outlet of surface impoundment F06 and prior to discharging to the unnamed tributary of Broken Arrow Creek located in the SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM, Tulsa County, Oklahoma, or at Latitude 36° 02' 32.2"N, Longitude 95° 46' 8.8"W (GPS: NAD83).

SECTION B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule: None.

SECTION C. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III. E.4 of the permit. Monitoring results obtained during the previous month shall be summarized and reported on the Discharge Monitoring Report (DMR) forms due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section postmarked or received no later than the 15th day of the following month. If no discharge occurs during the reporting period, DMR forms stating "No Discharge" shall be submitted according to the above schedule.

The first report is due on __.

PART II
OTHER PERMIT REQUIREMENTS

A. REGULATORY NOTICE

The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements, and any and all amendments of the laws of the state of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the Director's approval, grant and issuance of this permit, permittee acknowledges receipt of true, correct, and current copies of Oklahoma's Water Quality Standards, and the rules of the Oklahoma Department of Environmental Quality, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.

B. REOPENER CLAUSE

This permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a Total Maximum Daily Load is established for the receiving stream(s), or when required as technology. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

C. LABORATORY CERTIFICATION

All laboratory analyses for the parameters specified in this permit must be performed by a laboratory certified by the Oklahoma Department of Environmental Quality for those parameters.

D. ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, effluent and/or upstream monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136 in effect on the effective date of this permit. Appendices A, B, and C to 40 CFR Part 136 are specifically referenced as part of this requirement. Amendments to 40 CFR Part 136 promulgated and incorporated by reference into OAC 252:606 after the effective date of this permit shall supersede these requirements as applicable.

E. SURFACE IMPOUNDMENT REQUIREMENTS

A minimum freeboard of one (1) foot for surface impoundments F01, F02, F04, F05, and F06 shall be maintained.

The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; additional monitoring and reporting (including but not necessarily limited to soil sampling); reclassification of wastes; sludge management plans; best management practices; closure plans; remediation and/or remediation plans; monitoring wells and/or subsurface monitoring plans; and/or other appropriate actions.

At such time as surface impoundments F01, F02, F04, F05, and/or F06 are to be permanently taken out of service or at such time as the contents of F01, F02, F04, F05, and/or F06 pose a risk to the environment or waters of the state, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.

In all other respects, F01, F02, F04, F05, and/or F06 shall be subject to standard conditions for surface impoundment contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring, and closure.

F. LAND APPLICATION

Not Applicable

G. OTHER DISPOSAL METHODS

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewater shall be disposed in a state approved industrial waste disposal site or to a company for recycling.

If any such industrial wastes are removed from the facility, the permittee shall keep accurate records which include the following information:

a. Name and address of company hauling waste.
b. The type and amount of waste hauled.
c. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the staff of the Department for inspection, review, and copying.

APPENDIX

Description of Wastewater Treatment/Disposal Surface Impoundments (S.I.s)

Classification OAC 252:616-1-2		Liner Requirements OAC 252:616-7-2(b)	Holding Capacity and/or Dimensions OAC 252:616-7-1(6) [b]	Wastewater Destination
S.I. [a]	Wastewater			
F01	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	59,252 gallons 30' x 102' x 6'	F06
F02	Wastewater from the truck washout area and associated storm water runoff Class II	Concrete	25,761 gallons 24' x 36' x 6'	F06
F04	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	5,350 gallons 11' x 25' x 5.2'	F06
F05	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	12,934 gallons 29.2' x 32' x 2.25'	F06
F06	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	47,127 gallons 30' x 60' x 3.5'	Outfall 002

[a] Designation F refers to a flow-through surface impoundment.
[b] Based on information provided in application. Freeboard requirements in Part I.D.5 must be met.

Location of Surface Impoundments

S.I.	Legal Location	General Location and Description
F01	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located southwest corner of the facility and south side of the concrete batch plant
F02	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located east of the concrete batch plant and approximately 120 feet north of the maintenance building.
F04	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 300 feet east of the maintenance building.
F05	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 120 feet north of F02.
F06	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 50 feet south of F01.

STATEMENT OF BASIS

STATEMENT OF BASIS FOR THE DRAFT AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM (OPDES).

ODEQ Permit No.:	OK0045781
Facility ID No.:	I-72002620
Applicant:	Sherwood Construction Company, Inc. DBA Greenhill Concrete Products, Inc – Broken Arrow 1640 S. 101st E. Ave. Tulsa, OK 74128
Issuing Office:	Oklahoma Department of Environmental Quality Water Quality Division 707 N. Robinson P.O. Box 1677 Oklahoma City, OK 73101-1677
Prepared By:	Brandon Tyler Industrial Permits Section
Date Prepared:	January 16, 2014
Reviewed by:	Carol Paden, P.E., Manager Industrial Permits Section
Permit Action:	Renewal of a OPDES Discharge Permit

In accordance with 40 CFR 124.8 and 124.56, this fact sheet describes the applicant's facility operation and sets forth the principal facts and the significant factual, legal, methodological, and policy questions considered in preparing the draft permit modification. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to applicable effluent limitation guidelines or performance standard provisions as required under 40 CFR 122.44. In accordance with 40 CFR 122.44(l), proposed permit limits for reissued permits are based on the more stringent of applicable technology-based limitations, applicable water quality-based limitations, or limitations in the previous permit.

Citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations. Citations to OAC 252 and OAC 785 refer to promulgated regulations listed at Titles 252 and 785, Oklahoma Administrative Code.

I. PERMITTING BACKGROUND

A. CHRONOLOGY OF PERMITTING ACTIVITIES

The following is a chronology of permitting activities leading up to the renewal of this permit

- 02/14/2015 Courtesy draft packet sent to the facility
- 01/16/2015 Complete letter sent to the facility
- 01/13/2015 Response to incomplete letter received
- 11/20/2014 Second incomplete letter sent
- 10/29/2014 Proof of publication received
- 10/27/2014 Incomplete letter sent
- 10/23/2014 Site visit
- 10/20/2014 Receipt of renewal application

B. PROPOSED PERMITTING ACTION

It is proposed that the OPDES Permit No. OK0045781 permit be reissued for a 5-year term in accordance with regulations promulgated at 40 CFR 122.46(a) and OAC 252:606-1-3(b).

II. APPLICANT ACTIVITY

A. DESCRIPTION AND LOCATION OF FACILITY

Greenhill Concrete Products, Inc. (formerly Arrow Concrete Company) is a ready-mix concrete processing facility (SIC 3273) located in the SE¼, NW¼, NE¼ of Section 13, Township 18N, Range 14EIM, Tulsa County Oklahoma.

B. WASTEWATER GENERATION AND TREATMENT

1. Process Wastewater

Based on the permit application, the facility discharges a maximum of 458,000 GPD of treated process wastewater via Outfall 002 to an unnamed tributary of Broken Arrow Creek.

Process wastewater treatment is comprised of settling of solids and pH adjustment in flow-through surface impoundments F01, F02, F04, F05, and F06.

2. Sanitary Wastewater

The facilities sanitary wastewater needs are handled by Port-a-Johns that are routinely serviced.

III. DISCHARGE INFORMATION

A. DISCHARGE LOCATION

The discharge is to an unnamed tributary of Broken Arrow Creek, located in stream segment 120410 of the Middle Arkansas River Basin. Based on the application, the facility has one outfall and is summarized below:

Outfall	Location		Receiving Stream
	Legal Description	Latitude -Longitude	
002	SE¼, NW¼, NE¼ Sect 13, T18N, R14EIM Tulsa Co., Oklahoma	N 36° 02' 32.2" W 95° 46' 8.8" (GPS: NAD83)	Unnamed tributary of Broken Arrow Creek

B. DISCHARGE DESCRIPTION AND CHARACTERISTICS

Outfall 002: The discharge consists of process wastewater from a concrete batch plant.

a. DMR Data (November 2012 – November 2014)

Effluent Flow (MGD)

Outfall	Frequency of Discharge	Type of Measurement	Long Term Avg	High 30-day Avg	Daily Max
002	Intermittent	Record	0.0402	0.0599	0.1249

Conventional, Non-Conventional, and Priority Pollutants

Parameters	Mass Loadings (lbs/day unless otherwise specified)		Concentration/Other Units (mg/l unless otherwise specified)	
	Daily Maximum	Long-term Average	Daily Maximum	Long-term Average
Oil & Grease	---	---	30.5	8.76
Total Suspended Solids	---	---	6.6	5.11
pH	Between 6.08 – 11.2 s.u.			

b. ODEQ Application Data

Effluent Flow (MGD)

Outfall	Frequency of Discharge	Type of Measurement	Long Term Avg	High 30-day Avg	Daily Max
002	Continuous	Record	0.0641	0.458	0.458

Conventional, Non-Conventional, and Priority Pollutants

Parameter	No. of Analyses	Daily Maximum [1]	
		Concentration (mg/l)	Mass (lb/day)
BOD_5	1	16.0	---
COD	1	48.4	---
TOC	1	18.9	---
TSS	1	255	---
Ammonia (as N)	1	0.9	---
Total Dissolved Solids	1	982	---
Chloride	1	289	---
Sulfate	1	224	---
Oil and Grease	1	30.5	---

[1] ODEQ application data, Form 2C.

IV. RATIONALE FOR DETERMINING DISCHARGE PERMIT LIMITS

The following sections set forth the principal facts and the significant factual, legal, methodological, and policy considered in preparing the draft permit. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to the applicable effluent limitation guideline or performance standard provisions as required under 40 CFR 122.44, and reasons why they are applicable or an explanation of how the alternative effluent limitations were developed.

In accordance with regulations promulgated at 40 CFR 122.44(l), the draft permit limits are based on the more stringent of technology-based limitations, applicable water quality-based limitations, or the previous permit limits.

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS AND CONDITIONS

1. General Comments

Regulations promulgated in 40 CFR 122.44(a) and OAC 252:606-5-2(a)(1) require technology-based effluent limitations to be placed in OPDES permits based on effluent limitations guidelines, where applicable, on Best Professional Judgment (BPJ) in the absence of guidelines, or on a combination of the two.

2. Applicable Effluent Limitations Guidelines

Technology-based effluent limitations and conditions have not been promulgated for this industry.

3. Best Professional Judgment of the Permit Drafter

Under authority of the Clean Water Act and State laws, the State has developed this permit on a case specific basis since ELG's have not been developed for this industry. The Daily Maximum and Monthly Average concentrations and applicable loading limitations for these parameters are either Best Practicable Control Technology Current Available (BPT), Best Available Technology Economically Achievable (BAT), or Best Conventional Pollutant Control Technology (BCT) based on BPJ, using previous State and NPDES permits and the facility's past performance as guidance.

BPT, BAT, and BCT effluent limitations for Outfall 002 are shown in the following table.

BPT, BAT, and BCT Effluent Limitations – Outfall 002

Parameters	Monthly Average, mg/l	Daily Maximum., mg/l
Oil and Grease	Report	15
Total Suspended Solids	Report	40

4. Variance Request

No requests for variances from effluent limitations promulgated under 40 CFR have been received.

B. WATER-QUALITY-BASED EFFLUENT LIMITATIONS AND/OR CONDITIONS

1. General Comments

Section 101 of the Clean Water Act (CWA) states that "... it is the national policy that the discharge of toxic pollutants in toxic amounts be prohibited...." A permit containing technology-based permit limitations alone may not adequately protect the quality of a specific receiving stream. Thus, additional water quality-based effluent limitations and/or conditions are considered in the draft permit using narrative and numerical standards contained in the Oklahoma Water Quality Standards (OWQS), as amended (OAC 785:45), and implementation criteria contained in OAC 785:46 and 252:690, promulgated by the Oklahoma Water Resources Board (OWRB) and the Department of Environmental Quality (DEQ), respectively. This is to ensure that no point-source discharge results in instream aquatic toxicity, a violation of applicable narrative or numerical State water quality standards, or aquatic bioaccumulation which threatens human health.

2. Receiving Stream Designated Uses And Antidegradation Provisions

a. Designated Beneficial Uses

Outfall 002 discharges to an unnamed tributary of Broken Arrow Creek (WBID 120410010200) in Segment 120410 of the Middle Arkansas River Basin. As designated in Appendix A of the OWQS, the designated uses of the of the receiving stream in this segment are:

Fish and Wildlife Propagation/Warm Water Aquatic Community (OAC 785:45-5-12);
Agriculture (OAC 785:45-5-13);
Primary Body Contact Recreation (OAC 785:45-5-16);
Aesthetics (OAC 785:45-5-19); and
Fish Consumption (OAC 785:45-5-20).

b. Antidegradation Provisions

The unnamed tributary to Broken Arrow Creek is not designated as an Outstanding Resource Water (ORW), High Quality Water (HQW), or Sensitive Water Supply (SWS) in Appendix A of the OWQS. Neither is it designated in Table 1 of Appendix B of the OWQS as an area of ecological and/or recreational significance or in Table 2 of Appendix B as an area containing federally-listed endangered species.

3. Water Quality Standards Implementation Process

To achieve the objectives stated in Section IV.B.1 above, each pollutant present at measurable levels in the facility's effluent, for which there is one or more applicable numerical water quality criteria, is screened against the applicable criteria to determine whether the pollutant has reasonable potential (RP) to

exceed any of the criteria. The screens are performed in accordance with the OWQS, OWQS implementation criteria in OAC 785:46 and OAC 252:690, and the Continuing Planning Process (CPP) document. In the RP screening process, the 95th percentile effluent concentration, or estimate thereof if the effluent data set is not sufficiently large to determine it directly, is used to compute an instream concentration according to the regulatory mixing zone equations defined in OAC 785:46. The computed instream concentrations are then compared with the applicable criteria to determine whether RP is exhibited. However, after reviewing the application for this facility it was determined that there were no pollutants present at or above the applicable water quality criteria; therefore RP calculations are not needed.

4. Water Quality-Based Requirements By Designated Use

a. Fish and Wildlife Propagation/Warm Water Aquatic Community

(1) Dissolved Oxygen

Pursuant to OAC 785:45-5-12(f)(1)(A), dissolved oxygen (DO) criteria are designed to protect the diverse aquatic communities of Oklahoma. Based on the nature of the wastewater, the wastewater should not contain oxygen demanding substances at levels which would have reasonable potential to violate numerical criteria. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(2) Temperature

According to OAC 785:45-5-12(f)(2)(A), at no time shall heat be added to any surface water in excess of the amount that will raise the temperature of the receiving water more than 2.8°C at the edge of the mixing zone. Since heat is not added to the wastewater being discharged and discharge should essentially be at ambient temperature, there is no reasonable potential to violate temperature criterion. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(3) pH

OAC 785:45-5-12(f)(3) states, "the pH values shall be between 6.5 and 9.0 in waters designated for fish and wildlife propagation; unless pH values outside that range are due to natural conditions." Therefore, the draft permit establishes a lower pH limit of 6.5 standard units and an upper limit of 9.0 standard units.

(4) Oil and Grease

According to OAC 785:45-5-12(f)(4), "all waters having the designated beneficial use of any subcategory of Fish and Wildlife Propagation shall be maintained free of oil and grease to prevent a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of watercourses or which cause deleterious effects to the biota." A narrative (water quality-based) condition requiring conformance to OAC 785:45-5-12(f)(4) is included in the draft permit. In addition, a daily maximum concentration limit of 15 mg/l for oil and grease will be placed in the draft permit for Outfall 002 to implement the narrative criteria of "no visible sheen".

(5) Biological Criteria

Pursuant to OAC 785:45-5-12(f)(5), aquatic life in all water bodies with the beneficial use designation of Fish and Wildlife Propagation (excluding waters designated "Trout, put-and-take") shall not exhibit degraded conditions. Based on the nature of the wastewater, the treated wastewater is not expected to degrade the diversity, similarity, community structure, species tolerance, trophic structure, dominant species, indices of biotic integrity, indices of well being, or other measures. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(6) Toxic Substances

In accordance with OAC 785:45-5-12(f)(6)(A), surface waters of the state shall not exhibit acute toxicity and shall not exhibit chronic toxicity outside the chronic regulatory mixing zone. Based on the permit application, the discharge does not contain toxic substances at levels that could result in acute or chronic toxicity to fish or wildlife. Since the facility is a minor discharger, whole effluent toxicity (WET) testing is not required.

(7) Turbidity

OAC 785:45-5-12(f)(7) states that turbidity from other than natural sources shall be restricted so as not to exceed the numeric limit of 50 NTUs for surface waters that have a beneficial use of Warm Water Aquatic Community. The draft permit includes a technology-based limitation for TSS (a daily maximum limit of 40 mg/L) and a water quality-based narrative requirement for suspended solids. It is the BPJ of the permit writer that limitation on TSS should adequately control turbidity in the facility's discharge.

b. Protection of Agriculture Use

Per information provided in the permit application, the discharge does not contain chlorides, sulfates, or total dissolved solids at levels which would require water quality limitation and/or monitoring.

c. Primary Body Contact Recreation

Per information provided in the permit application, the discharge does not contain any sanitary waste. Therefore, coliform bacteria, escherichia coli (E. coli), and/or enterococci are not expected to be present at levels which would require water quality limitation and/or monitoring.

OAC 785:45-5-16(a) states "The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings." The draft permit will contain a narrative stating the prohibition of these conditions for Outfall 002.

d. Protection of Aesthetics Use

Aesthetics use is determined in accordance with OAC 785:45-5-19, which states, "the surface waters of the state must be free from floating materials and suspended substances that produce objectionable color and turbidity." A narrative requirement is established in the draft permit to prohibit the discharge of floating solids or visible foam in other than trace amounts. In addition, the technology-based numerical effluent limitations of a 40 mg/L daily maximum for TSS should also help to maintain the narrative water quality criteria for TSS.

e. Fish Consumption

In accordance with OAC 785:45-5-20(a), "surface waters of the state shall be maintained so that toxicity does not inhibit ingestion of fish and shellfish by humans." Per information provided in the permit application, the discharge does not contain pollutants at levels which would require fish consumption water quality limitation and/or monitoring.

C. Effluent Monitoring Requirements

Since it was determined that there were no pollutants present for which RP calculations would be needed, further effluent monitoring is not justified.

D. 303(d) Listing Evaluation

1. Water Quality Assessment and Causes of Impairment

The segment of Broken Arrow Creek which Outfall 002 discharges to is not listed as an impaired water body on Oklahoma's 2012 303(d) list.

2. 303(d) List-Related Permitting Actions

The permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge(s) to the receiving water(s), a Total Maximum Daily Load is established for the receiving stream(s), new water quality criteria isestablished, or a different technology based guideline is promulgated. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

E. Antidegradation Requirements

As stated in Section V.B, no antidegradation restrictions apply to the segments of a unnamed tributary of Broken Arrow Creek. Implementation of the state's antidegradation policy, as described at OAC 785:46, Subchapter 13, requires no further protection beyond the Tier 1 level (maintenance and protection of designated uses) for these receiving waters.

F. Protection of Endangered and Threatened Species and Critical Habitat

The receiving stream to which the facility discharges is not considered by the U.S. Fish and Wildlife Service (USFWS) to be a sensitive area for endangered or threatened species. Therefore, consultation with the USFWS is not required.

V. NON-DISCHARGE REQUIREMENTS

A. Surface Impoundment

Descriptions of surface impoundments are shown in the table on the following page.

Description of Surface Impoundments (S.I.)

Classification OAC 252:616-1-2		Liner Requirements OAC 252:616-7-2(b)	Holding Capacity and/or Dimensions OAC 252:616-7-1(6)	Wastewater Destination
S.I. (*)	Wastewater			
F01	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	59,252 gallons 30' x 102' x 6'	F03 and F06
F02	Wastewater from the truck washout area and associated stormwater runoff - Class II	Concrete	25,761 gallons 24' x 36' x 6'	F03 and F06
F04	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	5,350 gallons 11' x 25' x 5.2'	F03 and F06
F05	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	12,934 gallons 29.2' x 32' x 2.25'	F03 and F06
F06	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	47,127 gallons 30' x 60' x 3.5'	Outfall 002

(*) Designation F refers to flow-through surface impoundment.

Location of Surface Impoundments

S.I.	Legal Location	General Location and Description
F01	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located southwest corner of the facility and south side of the concrete batch plant
F02	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located east of the concrete batch plant and approximately 120 feet north of the maintenance building.
F04	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 300 feet east of the maintenance building.
F05	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 120 feet north of F02.
F06	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 50 feet south of F01.

1. **Wastewater Classification [OAC 252:616-1-2]**

   The wastewater generated from truck washout and associated stormwater runoff at this facility, was tested in a previous permit for classification. Due to high pH, surface impoundments F01, F02, F05, and F06 were classified as Class I wastewater and F02 was determined to be Class II wastewater.

2. **Freeboard Requirements (OAC 252:616-7-1(7))**

   Pursuant to OAC 252:616-7-1(7), a minimum freeboard of one (1) foot shall be maintained for surface impoundments F01, F02, F04, F05, and F06.

3. **Depth to Groundwater (OAC 252:616-7-1(4)(B))**

   Review of the December 7, 2009 engineering report, shows that the minimum groundwater separation from the bottom of surface impoundments F01, F02, F04, F05, and F06 is approximately 2.5 feet. Since surface impoundments F01, F02, F04, F05, and F06 contain concrete liners, it is the Best Professional Judgment of the permit writer that the depth to groundwater requirement of OAC 252:616-7-1(4) is satisfied.

4. **Liner Requirements (OAC 252:616-7-2(b))**

   Surface impoundments F01, F02, F04, F05 and F06 have a concrete liner. Since the wastewater being retained is Class I and Class II, it is BPJ that concrete liners are an appropriate and compatible liner system in accordance with OAC 252:616-7-2(b).

5. **Additional Requirements (OAC 252:616-11 or OAC 252:616-13)**

   The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.

   At such time as surface impoundments F01, F02, F04, F05 and/or F06 to be permanently taken out of service or at such time as the contents of F01, F02, F04, F05 and/or F06 pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-11 or OAC 252:616-13.

B. LAND APPLICATION

Not applicable.

VI. DRAFT PERMIT LIMITS AND OTHER REQUIREMENTS

A. EFFLUENT LIMITATIONS

Permit requirements are based on OPDES regulations (40 CFR Parts 122, 124, and 136) and OAC 252:606.

Outfall 002

Parameters	Technology-based		Water Quality-based		Previous Permit		Draft Permit	
	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l
Flow (MGD)	---	---	---	Report (MGD)	Report (MGD)	Report (MGD)	Report (MGD)	Report (MGD)
Oil and Grease	15	Report	---	---	15	Report	15	Report
Total Suspended Solids (TSS)	---	---	40	Report	40	Report	40	Report
pH	Between 6.0 – 9.0 s.u.		Between 6.5 - 9.0 s.u.		Between 6.5 - 9.0 s.u.		Between 6.5 - 9.0 s.u.	

Parameters	Draft Permit	
	Frequency	Sample Type
Flow	1/Month	Estimated
Oil and Grease	1/Month	Grab
TSS	1/Month	Grab
pH	1/Month	Grab

B. EVALUATION FOR PERFORMANCE-BASED MONITORING FREQUENCY REDUCTIONS

In accordance with OAC 252:690-91, since the permit does not contain any monthly average limits, performance-based monitoring frequency reductions are not applicable.

VII. SUMMARY OF CHANGES FROM PREVIOUS PERMIT

- No changes made from the previous permit.

VIII. ADMINISTRATIVE RECORD

The following sources were used to prepare this permit and constitute a part of the administrative record for this permit:

A. APPLICATIONS

OPDES Industrial Permit Application No. OK0045781 (Forms 1, 2C, and 2SI), received October 20, 2014.

B. CLEAN WATER ACT CITATIONS

Section 301, 303(d), and 402(a)

C. 40 CFR CITATIONS

40 CFR, in particular, Parts 122, 124, 136

D. STATE LAW, STANDARDS, AND RULES AND REGULATIONS

- Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S., §2-6-201 et seq.
- OAC 252:606, 616, and 690
- Oklahoma's Water Quality Standards, as amended
- Oklahoma Continuing Planning Process Document (CPP)

E. MISCELLANEOUS

- 2012 303(d) list
- The permit file

IX. CERTIFICATION AND FINAL DETERMINATION

A draft permit and draft public notice will be sent to the District Engineer, Corps of Engineers, Oklahoma Conservation Commission, and to the Regional Director of the U.S. Fish and Wildlife Service upon publication of that notice. If comments are received from these agencies or other State or Federal agencies with jurisdiction over fish, wildlife, or public health, the permit may be denied or additional conditions may be included in accordance with regulations promulgated under 40 CFR 124.59.

The public notice describes the procedures for the formulation of final determinations.

STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON
P.O. BOX 1677
OKLAHOMA CITY, OK 73101-1677

PUBLIC NOTICE

March 13, 2015

NOTICE OF ISSUANCE OF DRAFT TIER II PERMIT

POLLUTANT DISCHARGE(S) APPLICATION NO. OK0045781

Notice is hereby given that the Oklahoma Department of Environmental Quality (DEQ), at the address listed below, has processed and issued a draft permit to **Sherwood Construction Company, Inc. DBA Greenhill Concrete Products, Inc. – Broken Arrow, 1601 E. Houston Street, Tulsa, OK 74012** based on a Tier II application filed on the October 20, 2014, for a renewal permit with the DEQ. A final permit, if issued, would allow Greenhill Concrete Product, Inc. - Broken Arrow to discharge industrial wastewater from their facility, Greenhill Concrete Products, Inc. – Broken Arrow, 1601 E. Houston Street, Tulsa, OK 74012, located in SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM, Tulsa County. Greenhill Concrete Product, Inc. - Broken Arrow is a ready-mix concrete processing facility. The proposed discharge(s) consists of effluent from truck washout area and associated stormwater runoff. The discharge(s) will be to an unnamed tributary of Broken Arrow Creek from Outfall 002 located in SE¼, NW¼, NE¼ Section 13, Township 18N, Range 14EIM Tulsa County, Oklahoma at Latitude 36° 02' 32.2" N, Longitude 95° 46' 8.8" W. The facility also proposes to operate five flow-through impoundments.

A copy of the draft permit, statement of basis, application, and other relevant documents may be reviewed at the Offices of the DEQ, Water Quality Division, 707 N. Robinson, Oklahoma City, OK 73102, between the hours of 8:00 a.m. to 4:30 p.m. Monday – Friday. A copy of the draft permit, statement of basis, and application may be reviewed at the Broken Arrow Library, 300 West Broadway Ave., Broken Arrow, Oklahoma 74012-4407, between the hours of 10:00 a.m. and 8:00 p.m., Monday through Thursday, between the hours of 10:00 a.m. and 5:00 p.m., Friday and Saturday, closed Sunday. A copy of the draft permit may be reviewed on the DEQ website at http://www.deq.state.ok.us/mainlinks/publicpermits.html.

Pursuant to 27A O.S. Sec. 2-14-302, persons wishing to make comments concerning the draft permit may do so by sending the comments in writing to the Contact Person for the DEQ, at the address listed below, within 30 days after the date of publication or mailing. Comments should include: (1) name and address of the interested person, (2) the application name to which the request relates, (3) the nature and basis of the interest of the person affected, and (4) a statement of the objection or comment, the basis of the objection or comment, and any requested action by the DEQ.

The contact person for the DEQ, to schedule a date and time to review the application at the offices of the DEQ is:

Tammi L. Johnson
Oklahoma Department of Environmental Quality
P.O. Box 1677
707 N. Robinson, 8th Floor
Oklahoma City, OK 73101-1677
(405) 702-8170 or tammi.l.johnson@deq.ok.gov

The contact person for Greenhill Concrete Products, Inc. - Broken Arrow is:

Matt Ritchie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow Batch Plant
P.O. Box 10
Catoosa, OK 74128
918-266-6861

Pursuant to 27A O.S. Sec. 2-14-302, persons wishing to request a public meeting concerning the draft permit may do so by filing the request in writing to the Contact Person for the DEQ, at the address listed below, within thirty (30) days after the date of publication or mailing. Requests for the public meeting should include: (1) name and address of the interested person, (2) the application name to which the request relates, (3) the nature and basis of the interest of the person affected, and (4) a statement of the objection or comment, the basis of the objection or comment, and any requested action by the DEQ. A copy of the request must also be sent to the applicant, through the contact person listed below. A formal public meeting may be scheduled if there is a significant degree of public interest. Notice of the date, time and place of the public meeting will be given to all parties of record. A request for a public meeting may be combined with a submission of written comments.

If a public meeting is held, oral or written comments will be accepted at the meeting. The DEQ shall, within ninety (90) days of the date the public comment period closes (or longer if extended by the Executive Director of the DEQ), issue responses to all public comments received.

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002740 Permit No. OK611T212 County Tulsa / Rogers SIC ____

Sherwood Construction Co. (Name of Facility) | 5411 N. 145th East Ave. (Address) | Owasso (City) | 74055 (Zip)

Greendell Concrete Products, Inc. (Name of Owner) | P.O. Box 10 (Address) | Catoosa (City) | 74015 (Zip)

Mike Manning (Name of Contact) | PLT Operator (Position) | 918-345-0463 (Telephone)

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		Impoundments & freeboard ok.
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03		
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		
DISCHARGE PERMITS Total Retention	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: ____ (Contract laboratory) ____ (Facility) Samples analyzed by: ____ (Contract laboratory) ____ (Facility)	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

SWP3 maintained and up to date. Vehicle wash is listed as an allowable non stormwater discharge and should not be. All vehicle wash discharges to FO2 & TO1.

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Brian F. Clegg
Environmental Specialist

Employee ID# ____

Mike Manning
Copy received by

Title: PLANT OP

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
(30) : No Violation Noted

PURPOSE OF VISIT
(31) : Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
(35) : None
36 : Notice to Comply by: ____
37 : Refer to WQD ____ date

Date: 12/10/14

Total number of items marked: 0

Number of critical items marked: 0

TYPE CLASS
(74 : T) Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : D1 Discharging Lagoon (min)

DEQ FORM # 616-530B (Rev. 10/2005)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-7200274(0) Permit No. OKG11T212[illegible] County Tulsa and Rogers SIC ____

Sherwood Construction Co. / Name of Facility
5411 N. 145th East Ave / Address
Owasso / City
74055 / Zip

Greenhill Concrete Products, Inc. / Name of Owner
P.O. Box 10 / Address
Catoosa / City
74015 / Zip

Mike Manning / Name of Contact
Plt Operator / Position
918-345-0463 / Telephone

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	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
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	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		[illegible] from [illegible] in June 2012.
DISCHARGE PERMITS Total Retention	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: Arcadia Contract laboratory / ____ Facility Samples analyzed by: Accutest Contract laboratory / ____ Facility	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
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	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
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	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		See Attached
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

SWP3 maintained and up to date. Vehicle wash is timed, est. 6 allowable. Facility does not have process water discharge and should not have any. All vehicle wash discharges to FD2 + TO1.

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Brian F. Clegg / Environmental Specialist — Employee ID# ____

MR Manning / Copy received by — Title: Plant OP

DEQ FORM # 616-530B (Rev. 10/2005)

RECEIVED
JAN 08 2015
WATER QUALITY DIVISION

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: ____
37 : Refer to WQD ____ date

Date: 12/10/14

Total number of items marked: 0

Number of critical items marked: 0

TYPE CLASS
74 : T — Lagoon, Total Retention
74 : L — Land Application
74 : D — Discharging Lagoon (maj)
74 : D1 — Discharging Lagoon (min)

	Worksheet #7 **Completed by:** Randal J. Beeson **Title:** Environmental Consultant **Date:** September 2011

The following non-storm water discharges occur or may occur at this facility:

- **fire hydrant flushings;**
- **potable drinking water;**
- **uncontaminated air conditioning or compressor condensate;**
- **flows from emergency fire fighting activities**

CERTIFICATION

I, Matt Ritchie (responsible corporate official), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print) Matt Ritchie, Materials Manager	**B. Area Code and Telephone No.** (918) 266-6861
C. Signature	**D. Date Signed** 9/23/11

Superior. Always.

March 30, 2015

Ms. Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
APR 02 2015
WATER QUALITY DIVISION

RE: OPDES Permit Renewal Application, DEQ Permit No. OK0045781
Sherwood Construction Company, Inc., dba Greenhill Concrete Products, Inc.
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Ms. Paden:

Enclosed please find the proof-of-publication for the second legal notice required for the above permit renewal. Please contact me if you or your staff have any questions.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

cc: Sherwood Construction Company, LLC

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|1640 S. 101st E. Ave., Tulsa, OK 74128|
randy.beeson@secompliance.com| www.superiorenviro.com

PUBLISHER'S AFFIDAVIT

APPLICATION NO. OK 0045781

PUBLICATION DATE(S)
03/25/15

CASE NUMBER: APPLICATION NO. OK 0045781

AD NO: 00194960

LEGAL NOTICE

STATE OF OKLAHOMA
COUNTY OF Tulsa } **SS**

I, of lawful age, being duly sworn, am a legal representative of Tulsa Business & Legal News of Tulsa, Oklahoma, a daily newspaper of general circulation in Tulsa, Oklahoma, a newspaper qualified to publish legal notices, advertisements and publications as provided in Section 106 of Title 25, Oklahoma Statutes 1971 and 1982 as amended, and thereafter, and complies with all other requirements of the laws of Oklahoma with reference to legal publications. That said notice, a true copy of which is attached hereto was published in the regular edition of said newspaper during the period and time of publication and not in a supplement, on the ABOVE LISTED DATE(S)

Representative Signature

Subscribed to and sworn to me this 26th day of March, 2015.

Notary Public

KATHLEEN A. DRAKE

My commission number: 06000391

My commission expires: January 9, 2018

Customer #: 00030734

Customer: SHERWOOD CONSTRUCTION CO. INC.

Publisher's Fee: 144.90

KATHLEEN A DRAKE NOTARY PUBLIC No. 06000391 EXP. 1/09/2018 IN AND FOR STATE OF OKLAHOMA

194960
Published in the Tulsa Business & Legal News, Tulsa County, Oklahoma, March 25, 2015

NOTICE OF ISSUANCE OF DRAFT TIER II PERMIT

POLLUTANT DISCHARGE(S) APPLICATION NO. OK0045781

Notice is hereby given that the Oklahoma Department of Environmental Quality (DEQ), at the address listed below, has processed and issued a draft permit to **Sherwood Construction Company, Inc. DBA Greenhill Concrete Products, Inc. -Broken Arrow, 1601 E. Houston Street, Tulsa, OK 74012** based on a Tier II application filed on the October 20, 2014, for a renewal permit with the DEQ. A final permit if issued, would allow Greenhill Concrete Product, Inc. - Broken Arrow to discharge industrial wastewater from their facility, Greenhill Concrete Products, Inc. - Broken Arrow, 1601 E. Houston Street, Tulsa, OK 74012, located in SE1/4, NW1/4, NE1/4, Section 13, Township 18N, Range 14EIM, Tulsa County. Greenhill Concrete Product, Inc. - Broken Arrow is a ready-mix concrete processing facility. The proposed discharge(s) consists of effluent from truck washout area and associated stormwater runoff. The discharge(s) will be to an unnamed tributary of Broken Arrow Creek from Outfall 002 located in SE1/4, NW1/4, NE1/4 Section 13, Township 18N, Range 14EIM Tulsa County, Oklahoma at Latitude 36° 02' 32.2" N, Longitude 95° 46' 8.8" W. The facility also proposes to operate five flow- through impoundments.

A copy of the draft permit, statement of basis, application, and other relevant documents may be reviewed at the Offices of the DEQ, Water Quality Division, 707 N. Robinson, Oklahoma City, OK 73102, between the hours of 8:00 a.m. to 4:30 p.m. Monday - Friday. A copy of the draft permit, statement of basis, and application may be reviewed at the Broken Arrow Library, 300 West Broadway Ave., Broken Arrow, Oklahoma 74012-4407, between the hours of 10:00 a.m. and 8:00 p.m., Monday through Thursday, between the hours of 10:00 a.m. and 5:00 p.m., Friday and Saturday, closed Sunday. A copy of the draft permit may be reviewed on the DEQ website at http://www.deq.state.ok.us/ mainlinks/publicpermits.html.

Pursuant to 27A O.S. Sec. 2-14-302, persons wishing to make comments concerning the draft permit may do so by sending the comments in writing to the Contact Person for the DEQ, at the address listed below, within 30 days after the date of publication or mailing. Comments should include: (1) name and address of the interested person, (2) the application name to which the request relates, (3) the nature and basis of the interest of the person affected, and (4) a statement of the objection or comment, the basis of the objection or comment, and any requested action by the DEQ.

The contact person for the DEQ, to schedule a date and time to review the application at the offices of the DEQ is:

Tammi L. Johnson
Oklahoma Department of Environmental Quality
P.O. Box 1677
707 N. Robinson, 8th Floor
Oklahoma City, OK 73101-1677
(405) 702-8170 or tammi.l.johnson@deq.ok.gov

RECEIVED
APR 02 2015
WATER QUALITY DIVISION

The contact person for Greenhill Concrete Products, Inc. - Broken Arrow is:

Matt Ritchie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. - Broken Arrow Batch Plant
P.O. Box 10
Catoosa, OK 74128
918-266-6861

Pursuant to 27A O.S. Sec. 2-14-302, persons wishing to request a public meeting concerning the draft permit may do so by filing the request in writing to the Contact Person for the DEQ, at the address listed below, within thirty (30) days after the date of publication or mailing. Requests for the public meeting should include: (1) name and address of the interested person, (2) the application name to which the request relates, (3) the nature and basis of the interest of the person affected, and (4) a statement of the objection or comment, the basis of the objection or comment, and any requested action by the DEQ. A copy of the request must also be sent to the applicant, through the contact person listed below. A formal public meeting may be scheduled if there is a significant degree of public interest. Notice of the date, time and place of the public meeting will be given to all parties of record. A request for a public meeting may be combined with a submission of written comments.

If a public meeting is held, oral or written comments will be accepted at the meeting. The DEQ shall, within ninety (90) days of the date the public comment period closes (or longer if extended by the Executive Director of the DEQ), issue responses to all public comments received.

9999

SHERWOOD CONST. CO., INC.
P. O. BOX 10 PH. 266-6861
CATOOSA, OK 74015

NationsBank
NationsBank, N.A.

7810

8121 39-1/1030 OK

DATE 8-10-99

PAY THE SUM 1000 DOLS 00 CTS DOLLARS $1,000.00

TO THE ORDER OF ODEQ - Air Quality Division

Connie Hanson MP

⑈007810⑈ ⑆103000017⑆ 140181087843⑈

FRANK KEATING Governor

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARK COLEMAN Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHERWOOD CONST. CO., INC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

DATE	INVOICE NO.	DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS DISCOUNT	DEDUCTIONS FREIGHT	NET AMOUNT
		air permit application fee				
		117 001 Q10000GM	1,000.00			

V-4

DEQ AQD
Permit 99-034-C

SENT 8-12-99
POBox 2036 73101

FAC 3421
99-034-C

707 NORTH ROBINSON, P.O. BOX 1677, OKLAHOMA CITY, OKLAHOMA 73101-1677
printed on recycled paper with soy ink

Jack Fly
FAC 3421

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

Sherwood Construction Co., Inc., Greenhill Facility
Mr. Larry Milliger, Ph.D, CHMM, REM
Project Manager
4716 North 193rd Ave., P.O. Box #10
Catoosa, OK 74015-0010

Permit Number: 99-034-C
Permit Writer: Jack Fly
Current Date: September 20, 1999

Greenhill Materials
Installation of a Rock Crushing Facility
Application Received: August 10, 1999

Dear Dr. Milliger:

Air Quality has received your construction permit application. It has been given a permit number and assigned to the Regional Office at Tulsa (ROAT) permit writer referenced above. The information supplied thus far appears to be **administratively complete**. The fee assessed for this construction permit application is $1000 and $1000 has been received. Please note that additional information may be required in the future.

DEQ Uniform Permitting Tier rules became effective July 1, 1996, and include certain public participation requirements. This application has been determined to be a Tier I.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 461-7400. The DEQ Regional Office at Tulsa is now located at **(new location)** 5051 South 129th East Avenue, Tulsa, OK; **(new mailing address)** P.O. Box 690898, Tulsa, OK, 74169-0898.

Sincerely,

Richard Kienlen for Dave Dimick

David Dimick, P.E.
AIR QUALITY DIVISION
707 North Robinson, P.O. Box 1677
Oklahoma City, OK 73101-1677

NPL | Source ID Number | Fee

FAC 3421 99-034-C

Kansas Department of Health and Environment
Bureau of Air and Radiation
Phone (785) 296-6422 Fax (785) 291-3953

UNIT PERMITTED IN KS PREVIOUSLY

Notification of Construction or Modification
(K.A.R. 28-19-300 Construction permits and approvals; applicability)

Check one: ☑Applying for a Permit under K.A.R. 28-19-300(a) ☐Applying for an Approval under K.A.R. 28-19-300(b)

1) Source ID Number: _____

2) Mailing Information:
Company Name: WITTNER, INC.
Address: P.O. BOX 9444, 3219 W. MAY
City, State, Zip: WICHITA, KS 67213

3) Source Location: NORTH EAST CORNER OF I-35 AND K-196
City, County, State, Zip: HARVEY COUNTY KANSAS 67114
Section, Township, Range: SEC. 11 TWP 24S RANGE 1E
Latitude & Longitude Coordinates: _____

4) NAICSC/SIC Code (Primary): _____

5) Primary Product Produced at the Source: CRUSHING REMIXED CONCRETE

6) Would this modification require a change in the current operating permit for your facility? ☐Yes ☑No
If no, please explain: PLANT WAS IN OKLAHOMA UNTIL THIS PROJECT

7) Person to Contact at the Site: CLYDE BERGNER Phone: (316) 648-5096 (MAIN #)
Title: PROJECT MANAGER / DISPATCH MANAGER

8) Person to Contact Concerning Permit: CRAIG WESTPHAL Phone: (316) 943-1248
Title: CONTROLLER

Please read before signing:

Reporting forms provided may not adequately describe some processes. Modify the forms if necessary. Include a written description of the activity being proposed, a description of where the air emissions are generated and exhausted and how they are controlled. A simple diagram showing the proposed activity addressed in this notification which produces air pollutants at the facility (process flow diagrams, plot plan, etc.) with emission points labeled must be submitted with reporting forms. Information that, if made public, would divulge methods or processes entitled to protection as trade secrets may be held confidential. See the reverse side of this page for the procedure to request information be held confidential. A copy of the Kansas Air Quality Statutes and Regulations will be provided upon request.

Name and Title: Craig Westphal / Controller

Address: 3219 W. MAY
WICHITA KANSAS 67213

Signature: _____ Date: 3/5/99 Phone: (316) 943-1248

Kansas Department of Health and Environment
Division of Environment
Bureau of Air and Radiation

ROCK AND AGGREGATE CRUSHERS

1) Source ID Number: _____

2) Company/Source Name: WITTWER, INC

3) Emission Unit Identification: _____

4) Normal Operating Schedule: 1500 hrs/yr

5) Type of Plant: Portable X ; Stationary _____

6) Annual Production: 120,000 tons/yr

7) Will process equipment be used at a site authorized under the General Class II Air Source Emission Air Operating Permit for Crushed and Broken Stone facilities? Yes X ; No _____ If yes, indicate the following:

Piece of Equipment 30142 Jaw Crusher and initial site ID #: _____
Piece of Equipment 130-150 Impact Crusher and initial site ID #: _____
Piece of Equipment 6x20 Screen and initial site ID #: _____

8) Complete the following composition for each crushing plant:

Crushing Operation	Type*	Manufacturer	Year Made	Model No.	Serial No.	Capacity tons/hr	Qty. Used
Grizzly	N/A						
Primary	Jaw	Lippman	?	30142	?	300	1
Secondary	Impact	Universal	1995	130-150	619X248	300	1
Tertiary	N/A						
Recrusher	N/A						
Fines Mill	N/A						
Other							

*Jaw, Cone, Hammermill, etc.

ROCK AND AGGREGATE CRUSHERS
(cont.)

9) Complete the following description of the crushing plant dust control system:

Crushing Operation	Control**
Grizzly	N/A
Primary	High pressure mist nozzles on discharge Conveyor (6)
Secondary	Same as primary, but Twice as many nozzles (12)
Tertiary	N/A
Recrusher	N/A
Fines Mill	N/A
Other	Spray bars on stackers + discharge Conveyors 3 each

** If water spray, indicate number and location of spray nozzles, wetting agent used.

10) List bins, storage, and surge: NO bins, Stockpiles only

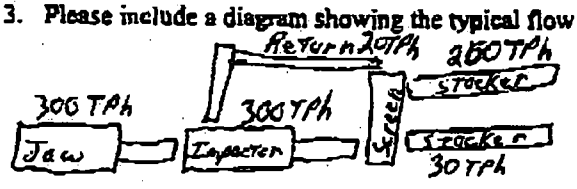
11) Does construction, modification, or reconstruction commence after August 31, 1983 for a Nonmetallic Mineral Processing Plant? Yes X ; No ____
If yes, this plant may be subject to NSPS, 40 CFR Part 60, Subpart OOO.

NOTES:

1. Indicate any equipment which is enclosed in the building.

2. If a dust collection system is installed, provide a sketch showing layout of dust collector points and routing of ductwork to dust collector(s).

3. Please include a diagram showing the typical flow rates of rock through the new equipment.



Screens

Unit No. or Ident. No.: 6x20 Screen
Manufacturer: Hewitt Robins
Model No. E-13
Serial No.: N/A
Date of Manufacture: 1982
Date of Latest Modification: N/A
Size: 6' x 20'
Maximum Rated Capacity: 400 tons/hr

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Date of Manufacture: _____
Date of Latest Modification: _____
Size: _____
Maximum Rated Capacity: _____ tons/hr

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Date of Manufacture: _____
Date of Latest Modification: _____
Size: _____
Maximum Rated Capacity: _____ tons/hr

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Date of Manufacture: _____
Date of Latest Modification: _____
Size: _____
Maximum Rated Capacity: _____ tons/hr

Elevators

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Tons/hr handled: _____

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Tons/hr handled: _____

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Tons/hr handled: _____

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Tons/hr handled: _____

Unit No. or Ident. No.: _____
Manufacturer: _____
Model No.: _____
Serial No.: _____
Tons/hr handled: _____

VI. CALCULATING THE CONSTRUCTION PERMIT APPLICATION FEE

[These requirements are found at K.A.R. 28-19-304(b).]

Calculate the construction permit application fee as follows:

Estimated capital cost of the proposed activity for which the application is made, including the total cost of equipment and services to be capitalized.	Line 1 $ 353,700.00
Multiply by .05% (.0005)	x .0005
Total	Line 2 $ 176.85
If Line 2 is greater than $4,000, enter $4,000 on Line 3. If Line 2 is less than $100, enter $100 on Line 3. Otherwise, copy Line 2 to Line 3.	
Construction permit application fee.	Line 3 $ 176.85

K.A.R. 28-19-17 is a complex regulation pertaining to prevention of significant deterioration (PSD). An additional fee of $1,500 will be required if a PSD review is necessary. If you believe the proposed activity in this Notification of Construction or Modification will be subject to the requirements of K.A.R. 28-19-17, contact the Department for further evaluation.

* For purposes of construction permit or approval applications, the following are not considered modifications:

1. Routine maintenance or parts replacement.
2. An increase or decrease in operating hours or production rates if:
   a. production rate increases do not exceed the originally approved design capacity of the stationary source or emissions unit; and
   b. the increased potential-to-emit resulting from the change in operating hours or production rates do not exceed any emission or operating limitations imposed as a permit condition.

Belt Conveyors

Unit No. or Ident. No.: 90' Stacker ✓
Manufacturer: Nordberg
Model No.: N/A
Serial No.: N/A
Date of Manufacture: N/A
Date of Latest Modification: 5/98
Width: 30"
Transfer to belt, screen, bin, etc.: Stockpile

Unit No. or Ident. No.: 42" Screen Feeder ✓
Manufacturer: Hoover
Model No.: 42 x 20
Serial No.: N/A
Date of Manufacture: 1999/Feb.
Date of Latest Modification: N/A
Width: 42"
Transfer to belt, screen, bin, etc.: Screen

Unit No. or Ident. No.: 100' Stacker ✓
Manufacturer: Hoover
Model No.: N/A
Serial No.: N/A
Date of Manufacture: 1995
Date of Latest Modification: N/A
Width: 30"
Transfer to belt, screen, bin, etc.: Stockpile

Unit No. or Ident. No.: 60' Cross Conveyor
Manufacturer: Hoover
Model No.: 30 X 10
Serial No.: N/A
Date of Manufacture: 2/99
Date of Latest Modification: N/A
Width: 30"
Transfer to belt, screen, bin, etc.: Stacker ✓

Unit No. or Ident. No.: 54" Impactor belt ✓
Manufacturer: Sherwood Const.
Model No.: N/A
Serial No.: N/A
Date of Manufacture: 1995
Date of Latest Modification: N/A
Width: 54"
Transfer to belt, screen, bin, etc.: Screen belt
Under Crusher Belt

Unit No. or Ident. No.: Under Screen belt ✓
Manufacturer: J W Jones
Model No.: N/A
Serial No.: N/A
Date of Manufacture: 1996
Date of Latest Modification: 2/98
Width: 36"
Transfer to belt, screen, bin, etc.: Stacker

FAC 3421
99-034-C

HOWARD SHERWOOD, Chairman
JOHN CURTIS, President
ROB ABBOTT, V.P. Const.
ALLEN PAYNE, V.P. Const.
ED VOSS, V.P. Const.
DAVID SHERWOOD, V.P. Equip.
DIANE SHERWOOD, V.P. Human Res.
HERB VON HOLLEN, Sec. Treas.
CONNIE KASSON, Ass't. Sec.
JERRY NOLL, C.F.O.
JOHN SHERWOOD, Corp. Counsel

4716 N. 193rd E. Avenue
P.O. Box 10
Catoosa, Oklahoma 74015
Telephone (918) 266-6861
FAX (918) 266-6482

SHERWOOD CONST. CO., INC.

DATE Aug 18, 1999 TIME 4:50 pm

TO THE ATTENTION OF: Jack Fly - Air Quality 461-7421 (Tel) 461-7404 (Fax)

COMPANY: ODEQ, Tulsa

FROM: Larry Milliger Sherwood Const. Co.

SUBJECT: Crusher Equipment Specs.

NUMBER OF PAGES 17 INCLUDING THIS COVER PAGE.

REMARKS:

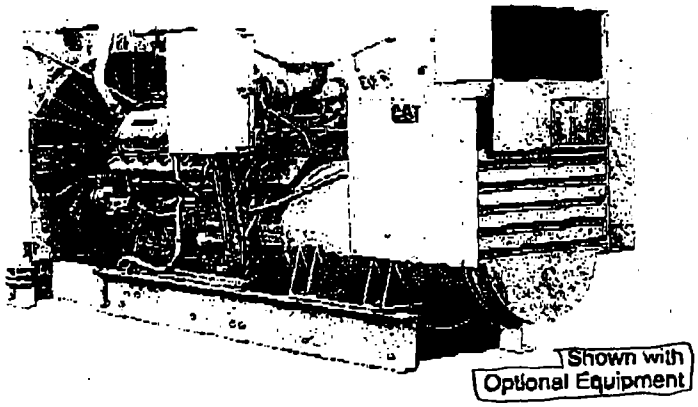
Jack -
Let me know if these fax to you ok.
Call me if you need more data.
Larry
266-6861

CATERPILLAR®

Generator Set

3412
1800 rpm
545 kW 60 Hz

Prime Power



CATERPILLAR® ENGINE SPECIFICATIONS

V-12, 4-Stroke-Cycle, Watercooled Diesel

Bore—mm (in)	137 (5.4)
Stroke—mm (in)	152 (6.0)
Displacement—L (cu in)	27.0 (1,649)
Compression ratio	14.5:1

ISO 9001 CERTIFIED

1687 NOX
97.0 CO
52 HC

FEATURES

CAT® DIESEL GENERATOR SETS
Factory designed, certified prototype tested with torsional analysis. Production tested and delivered to you in a package that is ready to be connected to your fuel and power lines. EPG designer computer sizing available. Supported 100% by your Caterpillar dealer with warranty and parts available. Extended warranty available in some areas. The generator set was designed and manufactured in an ISO 9001 compliant facility. Generator set and components meet or exceed the following specifications:
ABCSM, CMA, AS1359, BS2799, BS4999, BS5000, BS5514, DIN6271, DIN6280, EGSA101P, IEC 34-1, ISO3046/1, ISO8528, JEM1359, NEMA MG-1-22, VDE0530, 89/392/EEC

RELIABLE, FUEL EFFICIENT DIESEL
The compact, four-stroke-cycle diesel engine combines durability with minimum weight while providing dependability and economy. The fuel system operates on a variety of fuels.

CATERPILLAR® SR4B GENERATOR
Single bearing, wye connected, static regulated, brushless, permanent magnet excited generator designed to match the performance and output characteristics of the Caterpillar diesel engine that drives it.

EXCLUSIVE CATERPILLAR VOLTAGE REGULATOR
Three-phase sensing and Volts per Hertz regulation provide precise control, excellent block loading, and constant voltage in the selected operating range.

CATERPILLAR® SR4B GENERATOR

Type	Static regulated, brushless excited
Excitation	Permanent magnet
Construction	Single bearing, close coupled
Three phase	Wye connected
Insulation	Class H with tropicalization and antiabrasion
Terminal box	Drip proof IP 22
Alignment	Pilot shaft
Overspeed capability	150%
Paralleling capability	Standard — with adjustable droop
Voltage regulator	3-phase sensing with Volts-per-Hertz
Voltage regulation	Less than ± 1/2% (steady state) Less than ± 1% (no load to full load)
Voltage gain	Adjustable to compensate for engine speed droop and line loss
Wave form	Less than 5% deviation
TIF	Less than 50
THD	Less than 5%

CATERPILLAR CONTROL PANEL

24 Volt DC Control
Vibration isolated
NEMA 1, IP 22 enclosure
Electrically dead front
Lockable hinged door
Generator instruments meet ANSI C-39-1
Terminal box mounted

Voltages Available
(Consult Price List)

IMAGED AS RECEIVED

CATERPILLAR®

3412 GENERATOR SET

STANDARD EQUIPMENT

Engine
Aftercooler
Air cleaner, regular duty panel type with service indicators
Base, rails
Blower fan and drive
Breather, crankcase
Cooler, lubricating oil
Exhaust fitting and flange
Filters, right hand
fuel, full flow
lubricating oil, full flow
Flywheel housing
SAE No.1
Governor
hydra-mechanical
Lifting eyes
Manifold, exhaust, dry
Pumps, gear driven
fuel transfer,
lubricating oil
jacket water
Radiator
Shutoff, manual
Starting, electric, 24 Volt

Generator
SR4B brushless PM excited with VR3 voltage regulator

ELECTRONIC MODULAR CONTROL PANEL (EMCP)

Standard Generator Controls and Monitoring:
Ammeter/voltmeter
phase
selector switch
Digital ammeter,
voltmeter, and
frequency meter
Voltage adjust rheostat

Standard Engine Controls and Monitoring:
Automatic/manual
start-stop control
Cooldown timer
Cycle cranking
Emergency stop
pushbutton
Engine control switch for:
off/reset, auto start,
manual start, stop
Shutdown protection and
LED indicators for:
high coolant
temperature
low oil pressure
overcrank
overspeed

PRIME POWER ATTACHMENTS

Engine
Air cleaner, heavy duty
Air precleaner
Charging alternator
Cooling systems
Exhaust fittings
Governor, Woodward
2301, or 2301A load share; Woodward 1724 or 1724 load share
Protection devices
Tachometer drive

Generator
Coastal protected generators
Digital voltage regulator
Extension terminal box
Manual voltage control
MIL Std. 461B, Part 9
Oversized generators
RFI N Level (VDE 875), BS800
Self-excited generators
Space heater

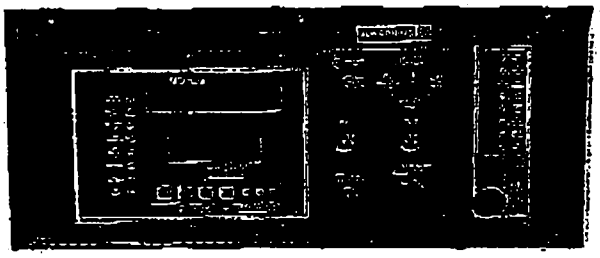
Switchgear
Automatic start-stop
Battery charger
Circuit breaker
manual
electric operated
Enclosure — floor standing NEMA 1
Main load buss
Paralleling
manual
permissive
auto (consult factory)
Protective relays

Control Panel
Auxiliary relay
Customer
Communication
Module (CCM)
Enclosure,
NEMA 12/IP 44
Governor speed switch
Illuminating lights
Installed speed sensing governor (Woodward)
Low coolant level
Overcurrent relay
Overvoltage relay
Provision for:
alarm module
alarm module – NFPA 99
alarm module – NFPA 110
Reverse power relay
Starting aid switch
Synchronizing lights

Caterpillar® EMCP II

Electronic Modular Control Panel

The Electronic Modular Control Panel (EMCP II) is a generator-mounted control panel, available on all Caterpillar packaged generator sets. It utilizes an environmentally sealed, solid-state, microprocessor-based module for engine control and AC metering. This new application of mature, high-tech electronics to gen set control and monitoring provides more features, accuracy and reliability than present electro-mechanical and many competitive panel systems.



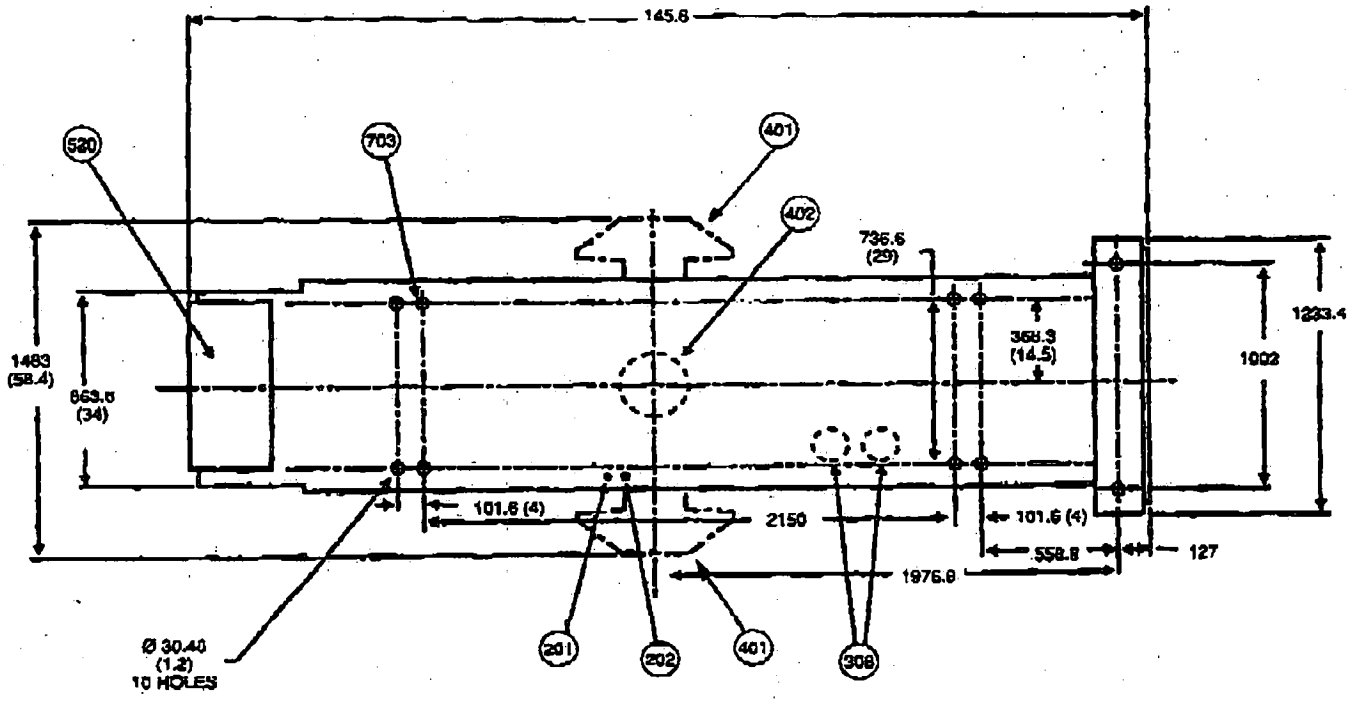
The EMCP II provides these standard control and monitoring features, many of which are options on other panels:

- Automatic/manual start-stop engine control with programmable safety shutdowns and associated flashing LED indicators for low oil pressure, high coolant temperature, overspeed, overcrank and emergency stop
- Cycle cranking–adjustable 1-60 second crank/rest periods
- Cooldown timer–adjustable 0-30 minutes
- Energized to run or shutdown fuel control systems
- LCD digital readout for: Engine oil pressure; coolant temperature; engine rpm; system DC volts; engine running hours; system diagnostic codes; generator AC volts; generator AC amps; and generator frequency
- Engine control switch
- Ammeter-voltmeter phase selector switch
- Emergency stop pushbutton
- Indicator/display test switch
- Voltage adjust potentiometer
- Rugged NEMA 1/IP 22 cabinet.

CATERPILLAR®

3412 GENERATOR SET

PRIME GENERATOR SET PACKAGE



201 Fuel Inlet
202 Excess Fuel Return
308 Oil Filter
401 Air Inlet
402 Exhaust
520 Control and Power Panel
703 Customer Mounting Holes

For overall dimensions see technical data section (page 3).

Note: General configuration not to be used for installation. See general dimension drawings for detail. All dimensions are in mm.

CONDITIONS AND DEFINITIONS

Prime — Output available with varying load for an unlimited time. Prime power in accordance with ISO8528. 10% overload power in accordance with ISO3046/1, AS2789, DIN6271, and BS5514 available on request.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046/1, DIN6271, and BS5514 standard conditions.

Fuel rates are based on fuel oil of 35° API (16° C or 60° F) gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for details.

Materials and specifications are subject to change without notice.

LEHX5434 (8-95)
Supersedes LEHX3098

© 1995 Caterpillar Inc.

The International System of Units (SI) is used in this publication.
Printed in U.S.A.

ell me about this Connie

PURCHASER:

SHERWOOD CONSTRUCTION CO., INC.

P.O. BOX 10
CATOOSA, OKLAHOMA 74015
TEL: (918) 266-6861 FAX: (918) 266-6482

VENDOR:
Continental Equipment Co.
P.O. Box 490
Chesterfield, MO. 63006
PHONE: (314)-532-1470 Local: 665-7332
ATTN: Mr. Larry Neal Mr. Bob Wulfers

FOR PROJECT:
Taxiway Lima Rehabilitation and Extension
Portland Cement Concrete Crushing

DATE: Sept. 8, 1994
P.O. NO: 193-001
JOB NO: 193
SHIP TO: See Below

APPROX. QUANTITY	UNIT	MERCHANDISE	UNIT PRICE	TOTAL
1	EA	New Universal Portable Recycle Impact Crusher consisting of: (A) Portable 130/150 RCP Impactmaster II Crusher (B) Grizzly Feeder Feeding into the Crusher (C) Reciprocating Plate Feeder Under Crusher (D) Four (4) Axle Carrier Serial 619 x 248	$265,000.00	$265,000.00
1	EA	New Hoover 30 in x 100 ft Radial Stacker	$26,000.00	$26,000.00
1	EA	New Hoover Under Crusher Conveyor Matched to Radial Stacker	$15,000.00	$15,000.00
4	EA	Electrical Starters - Two (2) for Feeders & Two (2) for Conveyors	N.C.	306,000
1	LS	Mounting and Hookup of Buyer Furnished Diesel Power Unit and Generator	Deposit N.C.	<[illegible]>

endor agrees to present to the Buyer for Pickup a complete Crushing Unit ready to erform Portland Cement Concrete Crushing Operations (less setup and electrical ring of Starters) by October 10, 1994

Net Now Due

Crusher 234,400

Conveyors 41,000

urchaser to perform electrical wiring to conveyors
urchaser to supply Diesel Drive Unit & 175 kw Generator based on Supplier's Sizing Recommendations
endor to provide Technical Assistance during Initial Plant Erection and Startup
eck for 10% Down ($30,600.00) is enclosed
usher Unit F.O.B. Cedar Rapids, Iowa
nveyors F.O.B. Pennsylvania

ces & Conditions of this Purchase Order are not Subject to Change Without or Approval of the Purchaser

TOTAL $306,000.00

RMS: ____ % Disc If Paid by: _____ Net 30 Days
LIVERY: ____ VIA: _____ FREIGHT: F.O.B. Mfgr.'s Plant
LES TAX: ____ % TAX EXEMPTION NO: _____
ndor agrees to comply with executive order 11246 (Equal Emplyment Opportunity)
ndor Federal I.D. Number: _____

NTINENTAL EQUIPMENT COMPANY

THORIZED SIGNATURE

SHERWOOD CONSTRUCTION Co., INC.

BY: Rodney L. Abbott
Purchaser

POWER TECHNIQUES INCORPORATED
P. O. Box 166 • ALMA, IL 62807
618-547-9099 800-425-2356
FAX 618-547-9110

QUOTE

DOCUMENT NUMBER: 003973
DOCUMENT DATE: 04/15/99
PAGE: 1

BILL TO: SHERWOOD CONSTRUCTION
P.O. BOX 504
NEWTON, KS
67114

QUOTED TO: SHERWOOD CONSTRUCTION
3219 WEST MAY
WICHITA, KS
67213

SHIP VIA: BESTWAY/PPD/ADD
CUST. ID: 6198
AVAILABILITY: 1-3 WEEKS ARO
TERMS: NET 30 DAYS
SALESPERSON: B006

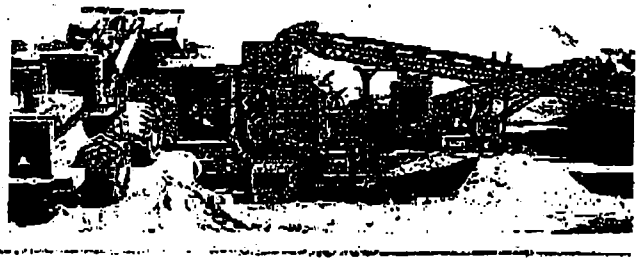
ITEM I.D./DESC.	QUANTITY	UNIT	PRICE	NET
FS-MK6-H6 MARK 6 HOOP, CUSTOM ORDERS (DOUBLE ROW OF TIPS 6" CENTER)	16.00	FOOT	120.00	1920.00
FS-MK4 MARK 4 HEAD ONLY	1.00	EACH	277.00	277.00
FS-MK6-H6 MARK 6 HOOP, CUSTOM ORDERS (DOUBLE ROW OF TIPS 6" CENTER)	8.00	FOOT	120.00	960.00
FS-MK6-H12 MARK 6 HOOP, CUSTOM ORDERS (SINGLE ROW OF TIPS 12" CENTERS)	20.00	FOOT	87.00	1740.00
FS-MK6-H12 MARK 6 HOOP, CUSTOM ORDERS (SINGLE ROW OF TIPS 12" CENTERS)	20.00	FOOT	87.00	1740.00

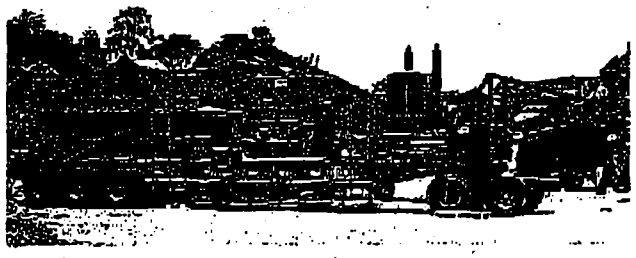
Post-it® Fax Note 7671 | Date 4/15/99 | # of pages ▶ 1
To Shaun Roberts | From Rich & Chrissy
Co./Dept. Sherwood | Co. Power Techniques
Phone # 316-283-0127 | Phone # 800-425-2356
Fax # 316-283-0127 | Fax # 618-547-9110

SUBTOTAL: 6637.00
TOTAL:

APPLICABLE TAX AND SHIPPING CHARGES NOT INCLUDED IN PRICE

CM
SI





ImpactMaster II at work...stationary or portable, double or triple curtain, or recycling models...the pay-off is their performance!

Hundreds of Universal ImpactMaster II secondary impact crushers are at work around the world. Owners will testify to their performance with higher rates of production and less maintenance than previously experienced.

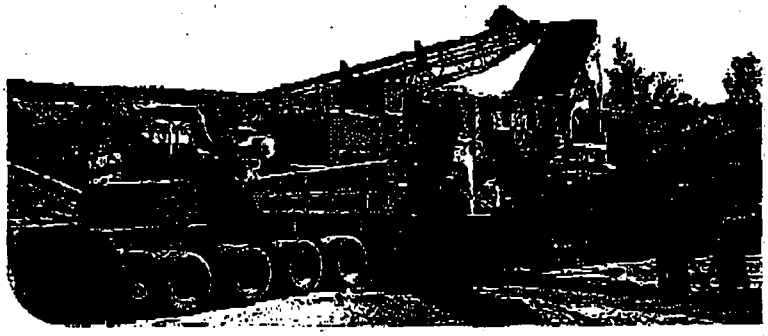
The key to the low cost, low maintenance operation of the ImpactMaster II is wear component simplicity. The high chrome alloy iron curtain liners and hammers keep your machine running longer, not down for welding or replacement.

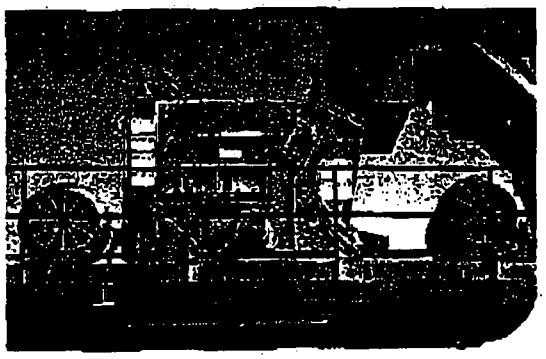
In the ImpactMaster II rotor, hammers and breaking curtains reduce rock by true impact breakage. The result is a clean cubical product. Working in a wide range of materials from hard and abrasive minerals to recycled concrete and asphalt, the ImpactMaster II is an efficient secondary crusher for many applications with more worktime and less downtime.

Consult Crusher Headquarters—your Universal Distributor—or phone or fax Universal Engineering, Division of Pettibone Corporation, 800 First Ave., N.W., Cedar Rapids, IA 52405-3999. Phone 319-365-0441. FAX 319-369-5440.

crusher HQ

UNIVERSAL





L.B. SMITH, INC.
Louisville, TN • (615) 970-3014
Memphis, TN • (901) 346-8704
Lavergne, TN • (615) 793-3888

CONTINENTAL EQUIPMENT COMPANY OF ARKANSAS
St. Louis, MO • (501) 372-1770

CONTINENTAL EQUIPMENT COMPANY OF OKLAHOMA
Tulsa, OK • (918) 627-7031
(314) 532-1470

GRACE MACHINERY & FABRICATION COMPANY
Springfield, MO • (417) 866-2537

IMAGED AS RECEIVED

CONTINENTAL EQUIPMENT COMPANY
P.O. BOX 490 • CHESTERFIELD, MISSOURI 63006 • (314) 532-1470

RECEIVED SEP 19 1994

INVOICE 3207

SOLD TO
Sherwood Construction Company Inc.
P. O. Box 10
Catoosa OK 74015

SHIP TO

DATE 9-15-94

TERMS Net upon readiness to ship

YOUR ORDER NO. 193-001

OUR ORDER NO.

ORDER	B.O.	SHIP	PART NUMBER	DESCRIPTION	UNIT	COST	TOTAL
1				New Universal Portable Recycle Impact Crusher consisting of: A. Portable 130/150 RCP Impactmaster II Crusher with 300 HP Electric Motor (less starter and wiring). B. Grizzly feeder feeding into crusher. C. Reciprocating plate feeder under crusher. D. Four (4) axle carrier. Net F. O. B. Cedar Rapids, Iowa			$265,000.00
				New Hoover 30" x 100' radial stacker. Net F. O. B. Pennsylvania location.			26,000.00
				New Hoover under crusher conveyor matched to radial stacker. Net F. O. B. Pennsylvania location			15,000.00
				Electrical starters - Two (2) for feeders, and two (2) for conveyors.			
				Total			$306,000.00
				less deposit - Check 62611, dated 9-7-94			(30,600.00)
				Net			$275,400.00
				Vendor agrees to present to the buyer for pickup a complete crushing unit ready to perform Portland Cement Concrete Crushing Operations (less setup and electrical & starter for 300 HP electric motor). Plant ready for pickup week of October 10, 1994.			

cc: File
Ron E

OT ACCEPT GOODS RETURNED WITHOUT OUR PERMISSION HAVING FIRST BEEN GIVEN WITHIN THIRTY DAYS. WHERE GOODS ARE ACCEPTED A CHARGE OF E MADE TO COVER THE COST OF HANDLING; ALSO ALL FREIGHT CHARGES. ALL MERCHANDISE F.O.B. FACTORY, UNLESS OTHERWISE NOTED.

pay from this invoice.
ent will not be issued.

POWER TECHNIQUES INCORPORATED
P. O. Box 166 • ALMA, IL 62807
618-547-9099 800-425-2356
FAX 618-547-9110

QUOTE

DOCUMENT NUMBER: 003973
DOCUMENT DATE: 04/15/99
PAGE: 1

BILL TO: SHERWOOD CONSTRUCTION
P.O. BOX 504
NEWTON, KS
67114

QUOTED TO: SHERWOOD CONSTRUCTION
3219 WEST MAY
WICHITA, KS
67213

SHIP VIA: BESTWAY/PPD/ADD
CUST. ID: 6198
AVAILABILITY: 1-3 WEEKS ARO
TERMS: NET 30 DAYS
SALESPERSON: B006

ITEM I.D./DESC.	QUANTITY	UNIT	PRICE	NET
FS-MK6-H6 MARK 6 HOOP, CUSTOM ORDERS (DOUBLE ROW OF TIPS 6" CENTER)	16.00	FOOT	120.00	1920.00
FS-MK4 MARK 4 HEAD ONLY	1.00	EACH	277.00	277.00
FS-MK6-H6 MARK 6 HOOP, CUSTOM ORDERS (DOUBLE ROW OF TIPS 6" CENTER)	8.00	FOOT	120.00	960.00
FS-MK6-H12 MARK 6 HOOP, CUSTOM ORDERS (SINGLE ROW OF TIPS 12" CENTERS)	20.00	FOOT	87.00	1740.00
FS-MK6-H12 MARK 6 HOOP, CUSTOM ORDERS (SINGLE ROW OF TIPS 12" CENTERS)	20.00	FOOT	87.00	1740.00

Post-it® Fax Note 7671 | Date 4/15/99 | # of pages ▶ 1
To Shaun Roberts | From Rich & Chrissy
Co./Dept. Sherwood | Co. Power Techniques
Phone # 316-283-0127 | Phone # 800-425-2356
Fax # 316-283-0127 | Fax # 618-547-9110

SUBTOTAL: 6637.00
TOTAL:

APPLICABLE TAX AND SHIPPING CHARGES NOT INCLUDED IN PRICE.

CMC
S

Our most universal model. The Mark 6 can be custom shaped in a straight line, octagon, square — almost any configuration to fit your needs. Available in kit or custom built.

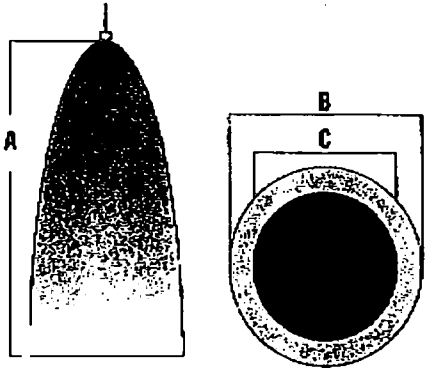
[illegible]

Arch Environmental Equipment's Fogger System is unique because it is simple and very effective in controlling the usually expensive task of reducing dust in sensitive areas.

ROUND SPRAY PATTERN

FOGGER SYSTEMS	Dimension, ft. A	B	C	Gallons per minute
Mark 2	3	5.5	3.5	0.548
Mark 3	4	6.5	4.5	1.020

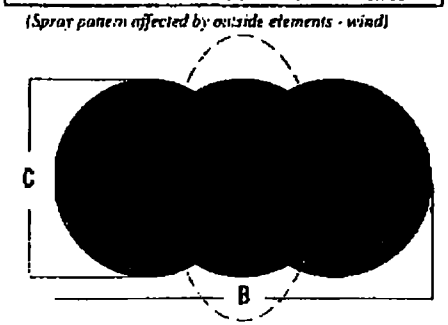
(#3 Standard tip @ 100 psi.



RECTANGULAR SPRAY PATTERN

FOGGER SYSTEMS	Dimension, ft. A	B	C	Gallons per minute
Mark 4	4	3.5	2.5	0.705

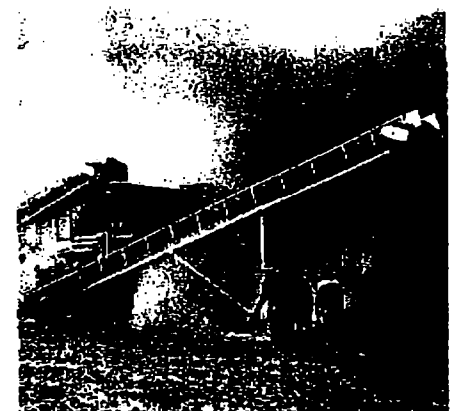
(Spray pattern affected by outside elements - wind)



ARCH Environmental Equipment FOGGER SYSTEMS INTERNATIONAL
P.O. Box 1760
Paducah, KY 42002-1760
(800) 553-4567
(502) 898-6821
Fax (800) 230-9462
E-mail: arch@aecs.com
http://www.lucalaccess.com/fsi
http://www.aecs.com

FSI ARCH Environmental Equipment FOGGER SYSTEMS INTERNATIONAL

IMAGED AS RECEIVED



Fugitive Dust Control

- *Water Only At 100–200 psi*
- *Minimal Operating Cost*
- *Quick Easy Installation*

MAKES A FOG NOT A SPRAY!

1 (800) 553-4567
Fax: 1 (800) 230-9462

011
SHERWOOD CONST. 918 266 6482
08/19/99 07:56 918 6482

The original "Dust Fogger", used for limited applications when low water usage is a must. Still a favorite of many in the aggregate/crushing industry. Mark 2 uses only 1/2 gallon per minute at 100 psi.

Low water usage. Wets the dust in the air —not the product!

Comes complete with brass fittings, filter, valve, and quick release nozzles. The Mark 3 uses only 1 gallon per minute at 100 psi.

The Mark 4 is designed to be expanded in a series from one head to another.

Comes complete with brass fittings, filter, valve, and quick release nozzles. The Mark 4 uses only 7/10 gallon per minute at 100 psi or 43 gallons per hour.

Our basic Fogger System illustrated with the Mark 4 fogger head and filter assembly.

- Lightweight, compact.
- Easily installed.
- Excellent filtration systems.
- Produces a finely atomized fog with very uniform distribution.
- Optional equipment: high pressure systems, remote controls, surfactant and antifreeze injection systems.

Booster Pump

Comes completely plumbed with pressure regulating system.

The Pump is available in either 110, 220 or 440 volts.

Mark 6 bars with filter, ball valve, quick connect (top) or Mark 6 bar only (bottom).

These foggers need no soaps, detergents, expensive high pressure pumps or air pressure.

Arch has developed an industry proven surfactant - bonding agent to enhance coal dust agglomeration. This surfactant will also aid in the "stretching of water" by enhancing the bonding of water to dust particulate matter.

Patents pending
3-98

Arch Environmental Equipment

Pump Specifications
Suggested number of heads using #3 nozzle

Pump Size	@100 psi	@150 psi
3/4 HP (max 100psi)	528 gph	219 gph
Mark 2 (7 nozzles)	16	8
Mark 3 (13 nozzles)	8	4
Mark 4 (9 nozzles)	12	6
Single nozzle	112	38
1 HP (max 100psi)	720 gph	468 gph
Mark 2 (7 nozzles)	21	14
Mark 3 (13 nozzles)	11	7
Mark 4 (9 nozzles)	17	10
Single nozzle	153	83
2 HP (max 100psi)	1800 gph	1450 gph
Mark 2 (7 nozzles)	41	13
Mark 3 (13 nozzles)	22	7
Mark 4 (9 nozzles)	32	10
Single nozzle	293	78
3 HP (max 100psi)	1800 gph	1450 gph
Mark 2 (7 nozzles)	48	35
Mark 3 (13 nozzles)	25	18
Mark 4 (9 nozzles)	37	27
Single nozzle	339	205

1 (800) 553-4567

(502) 898-6821

or fax: **1 (800) 230-9462**

e-mail: arch@aeec.com

web-sites: www.localaccess.com/fsi

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GUARANTEE

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FAC 3421
99-034-C
8/10/99

Table 11.19.2-2 (cont.)

[d] Emission factors for total particulate are not presented pending a re-evaluation of the EP Method 201a test data and/or results of emission testing. This re-evaluation is expected to b completed by July 1995.
[e] References 9, 11, 15-16.
[f] Reference 1.
[g] No data available, but emission factors for PM-10 emission factors for tertiary crushing can be use as an upper limit for primary or secondary crushing.
[h] References 10-11, 15-16.
[j] Reference 12.
[k] References 13-14.
[m] Reference 3.
[n] Reference 4.

EMISSION DATA
QUARRY

Emission factor estimates for stone quarry blasting operations are not presented here because of the sparsity and unreliability of available test data. While a procedure for estimating blastin emissions is presented in Section 11.9, Western Surface Coal Mining, that procedure should not be applied to stone quarries because of dissimilarities in blasting techniques, material blasted, and size o blast areas. Milling of fines is not included in this section as this operation is normally associated with nonconstruction aggregate end uses and will be covered elsewhere when information is adequate. Emission factors for fugitive dust sources, including paved and unpaved roads, materials handling and transfer, and wind erosion of storage piles, can be determined using the predictive emission factor equations presented in AP-42 Section 13.2.

References For Section 11.19.2

1. *Air Pollution Control Techniques for Nonmetallic Minerals Industry*, EPA-450/3-82-014, U. S. Environmental Protection Agency, Research Triangle Park, NC, August 1982.

2. Written communication from J. Richards, Air Control Techniques, P.C., to B. Shrager, MRI. March 18, 1994.

3. P. K. Chalekode *et al.*, *Emissions from the Crushed Granite Industry: State of the Art*, EPA-600/2-78-021, U. S. Environmental Protection Agency, Washington, DC, February 1978.

4. T. R. Blackwood *et al.*, *Source Assessment: Crushed Stone*, EPA-600/2-78-004L, U. S. Environmental Protection Agency, Washington, DC, May 1978.

5. F. Record and W. T. Harnett, *Particulate Emission Factors for the Construction Aggregate Industry, Draft Report*, GCA-TR-CH-83-02, EPA Contract No. 68-02-3510, GCA Corporation, Chapel Hill, NC, February 1983.

6. *Review Emission Data Base and Develop Emission Factors for the Construction Aggregate Industry*, Engineering-Science, Inc., Arcadia, CA, September 1984.

7. C. Cowherd, Jr. *et al.*, *Development of Emission Factors for Fugitive Dust Sources*, EPA-450/3-74-037, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

FAC 3421
99-034-C

DARR POWER SYSTEMS

Division of Darr Equipment Co.

Darr Equipment Co.
Phone: 972-721-5832, Fax#: 1-972-721-5832

Fax Cover Page

To: Jack Fry
Company:
Fax Number: 1-918-461-7404,,021

From: Ron Taylor
Company: Darr Equipment Co.
Fax Number: 1-972-721-5832
Voice : 972-721-5832

Message:

Following is the emissions data for a Caterpillar 3412 Generator set, serial number 81Z21911 & greater, rated 545 Kw prime.

The emissions data is in two forms, metric - ppm, and english - lb/hr.

Please give me a call if you have any questions or comments.

Ron Taylor

Attached is the exhaust emission data requested. The data was obtained through actual engine tests on an engine of similar configuration to yours. Emission data measurement is consistent with EPA methods described in Cfr 40 Part 86 Sub Part D and Iso 8178-1 for HC, CO, CO2 and NOX. The particulate matter was measured using ISO procedure 8178-1. The fuel used was #2 diesel with 35 deg API and LHV of 42,783 kj/kg (18,390 btu/lb). The data is based on steady state operating conditions with inlet air conditions of 25 deg c (77 deg f), 96 kpa (28.42 in.hg.abs).

The NOX shown is not actually present in the exhaust, it is based on the assumption that all the NO and NO2 in the exhaust is converted to NO2 in the atmosphere. The NOX is reported with a molecular weight equal to NO2 and is corrected for 75 grains/lb engine inlet air humidity.

Emission data

3412C DI TA JW DRY MANF TURBO QTY 2 HYDRA GOV
TM4610-07 PGS PRIME 60 HERTZ EXH STK DIA 203 MM
GEN 545.0 W/F EKW 566.0 W/O F EKW 582.0 W/F 604.0 W/O F @ 1800 RPM

INFO CODE 05 - EMISSIONS DATA * * * * * RATED SPEED * * * * STANDARD TIMING
"NOT TO EXCEED DATA"

GEN PWR EKW	% LOAD	ENG PWR BKW	NOX (AS NO2) * * * * * * * *	CO	TOTAL HC PPM * * * * * * * *	O2 (DRY) IN EXH (VOL) %	SMOKE OPAC %	BOSCH SMOKE NO.
545.0	100	604.0	1692	96	53	10.00	4.8	1.55
408.8	75	459.2	1830	78	92	10.50	3.4	1.35
272.5	50	315.6	1962	62	149	11.30	2.5	1.28
136.3	25	174.6	2153	89	228	13.50	1.7	1.28
54.5	10	84.5	2228	161	582	15.90	1.4	1.29

"NOMINAL DATA"
AT RATED:

WET EXHAUST MASS	3603	KG/HR
WET EXHAUST FLOW (477 DEG C STACK TEMP)	130.00	CU M/M 4588
WET EXHAUST FLOW RATE (0 DEG C AND 101.2 KPA)	47.30	NORM CU M/MIN
DRY EXHAUST FLOW RATE (0 DEG C AND 101.2 KPA)	42.68	NORM CU M/MIN
FUEL FLOW RATE	151	L/HR

INFO CODE 05 - EMISSIONS DATA * * * * * RATED SPEED * * * * STANDARD TIMING
"NOT TO EXCEED DATA"

GEN PWR EKW	% LOAD	ENG PWR BHP	NOX (AS NO2) * * * * * * * *	CO	TOTAL HC LB/HR * * * * * * * *	PART MATTER	O2 (DRY) IN EXH (VOL) %	SMOKE OPAC %	BOSCH SMOKE NO.
545.0	100	810.0	13.61	.48	.13	.830	10.00	4.8	1.55
408.8	75	615.8	11.03	.28	.16	.410	10.50	3.4	1.35
272.5	50	423.3	8.41	.16	.19	.320	11.30	2.5	1.28
136.3	25	234.1	5.66	.14	.18	.250	13.50	1.7	1.28
54.5	10	113.3	3.57	.15	.27	.220	15.90	1.4	1.29

ENGINE DATA

470 x 95 = 878

"NOMINAL DATA"
AT RATED:

WET EXHAUST MASS	7943 LB/HR
WET EXHAUST FLOW (891 DEG F STACK TEMP)	4591 CFM
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	1670 STD CFM
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	1507 STD CFM
FUEL FLOW RATE	39.9 GAL/HR

- GENERAL PERFORMANCE DATA *

GEN W/F EKW	PER CENT LOAD	ENG PWR BHP	ENG BMEP PSI	S FUEL CONSUM LB/BHP-HR	FUEL RATE GPH	INTAKE MANF T DEG F	INTAKE MANF P IN-HG	INTAKE AIR FL CFM	EXH MANF T DEG F	EXH STK T DEG F	EXH GAS FL CFM
545.0	100	810	216	.345	39.9	193	48.3	1734	1131	891	4587
490.5	90	732	195	.345	36.1	190	41.8	1607	1094	877	4209
436.0	80	654	174	.346	32.4	188	35.5	1479	1059	863	3828
408.8	75	616	164	.348	30.6	187	32.3	1412	1042	856	3633
381.5	70	577	154	.350	28.8	186	29.2	1345	1025	849	3439
327.0	60	500	133	.354	25.3	184	22.9	1211	991	834	3051
272.5	50	423	113	.362	21.9	183	17.0	1080	951	813	2666
218.0	40	349	93	.372	18.6	181	12.5	964	889	768	2306

9-14-99

FAC 3421
99-034-C

Fly
101=1

BASED ON ENGINE DATA

NOx $\frac{(X)}{454}\ 820 = 13.61$ 7.5 gm/hp-hr

CO $\frac{7.5}{13.61} \times .48 = .3$ gm/hp-hr

VOC $\frac{.13}{.48} \times .3 = .1$

$\frac{40 \times 138,000}{820}$

8-20-99

99034c

FAC 3421
99-034-C

ROAD TRAVEL

AP42 13.2.2

$$E = \frac{k(s/12)^a (W/3)^b}{(M/0.2)^c}$$

	PM_{10}	TSP
k	2.6	10
a	0.8	0.8
b	0.4	0.5
c	0.3	0.4
S	9.0	9.0
W	80	80
M	5.0	5.0

PM_{10} $E = \dfrac{(2.6)(\frac{9}{12})^{.8}(80/3)^{.4}}{(5/.2)^{.3}} = \dfrac{2.6 \times .79 \times 3.72}{2.63} = 2.91$

TSP $E = \dfrac{10\,(9/12)^{.8}(80/3)^{.5}}{(5/.2)^{.4}} = \dfrac{10 \times .79 \times 5.16}{3.62} = 11.25$

USE 90% CONTROL

9-29-99 REVISE M TO 2.5 IN PLACE OF 5

PM_{10} $2.91 \times \dfrac{(5/2)^{.3}}{(2.5/2)^{.3}} = 2.91\ \dfrac{1.32}{1.07} = 3.59$

PM $\longrightarrow 11.25 \times \dfrac{(5/2)^{.4}}{(2.5/2)^{.4}} = 14.82$

FAC 3421
99-034-O

Facsimile Transmission

Date: 17 December 2001 Time: 1550 Number of Pages: 3

To: Oklahoma Department of Environmental Quality
Attn: Jack Fly
Air Quality Division
Phone: (918) 461-7421
Fax: (918) 461-7404

From: Sherwood Construction Co. Inc./Greenhill Material
David Cooper
Phone: (918) 266-6861
Fax: (918) 266-4466

Re: Diesel Engine Data-Pug Mill

Dear Jack:

Please find attached the data that I have received from John Deere pertaining to the engine on the pugmill. Not much pertaining to emissions. Please call if you have any questions.

David Cooper

for David JD on Pug mill

Engine Specification Data

General Data

Model	4039T
Number of Cylinders	4
Bore and Stroke–in. (mm)	4.19 x 4.33 (106 x 110)
Displacement–in.³ (L)	239 (3.9)
Compression Ratio	17.3:1
Valves per Cylinder–Intake/Exhaust	1/1
Firing Order	1-3-4-2
Combustion System	Direct Injection
Engine Type	In-line, 4-Cycle
Aspiration	Turbocharged
Engine Crankcase Vent System	Open
Maximum Crankcase Pressure–in. H_2O (kPa)	2 (0.5)

Physical Data

Length–in. (mm)	34.2 (869)
Width–in. (mm)	21.1 (536)
Height–in. (mm)	39.1 (993)
Weight, dry–lb (kg)	915 (415)
(Includes flywheel housing, flywheel & electrics)	
Center of Gravity Location	
From Rear Face of Block (X-axis)–in. (mm)	10.2 (259)
Right of Crankshaft (Y-axis)–in. (mm)	-0.7 (-18)
Above Crankshaft (Z-axis)–in. (mm)	5.4 (137)
Maximum Allowable Static Bending Moment at	
Rear Face of Flywhl Hsg w/ S-G Load–lb-ft (N•m)	600 (814)
Thrust Bearing Load Limit (Forward)–lb (N) [I]	900 (4003)
[C]	500 (2224)

Fuel System

Fuel Injection Pump	Stanadyne
Governor Regulation	7-10 %
Governor Type	Mechanical
Fuel Consumption–lb/hr (kg/hr) [I]	389 (17.7)
[C]	54.8 (15.9)
Fuel Spill Rate–lb/hr (kg/hr) [I]	175.1 (80.8)
[C]	182.2 (82.7)
Total Fuel Flow–lb/hr (kg/hr)	217 (98)
Maximum Fuel Transfer Pump Suction–ft (m) fuel	3 (0.9)
Fuel Filter Micron Size @ 98% Efficiency	3

Lubrication System

Oil Pressure at Rated Speed–psi (kPa)	80 (345)
Oil Pressure at Low Idle–psi (kPa)	15 (105)
In Pan Oil Temperature–°F (°C)	240 (115)
Oil Pan Capacity, High–qt (L)	13 (12.3)
Oil Pan Capacity, Low–qt (L)	12 (11.4)
Total Engine Oil Capacity with Filters–qt (L)	14 (13.2)
Engine Angularity Limits, Any Direction–Degrees [I]	45
[C]	20

Air System

Maximum Allowable Temp Rise–Ambient Air to	
Engine Inlet–°F (°C)	15 (8)
Maximum Air Intake Restriction	
Dirty Air Cleaner–in. H_2O (kPa)	25 (6.25)
Clean Air Cleaner–in. H_2O (kPa)	12 (3)
Engine Air Flow–ft³/min (m³/min) [I]	255 (7.2)
[C]	225 (6.7)
Intake Manifold Pressure–psi (kPa) [I]	14.2* (98)
[C]	11.3* (78)
Recommended Intake Pipe Diameter–in. (mm)	3 (76.2)

Cooling System

Engine Heat Rejection–BTU/min (kW) [I]	2700 (47)
[C]	2345 (46)
Coolant Flow–gal/min (L/min)	69 (261)
Thermostat Start to Open–°F (°C)	180 (82)
Thermostat Fully Open–°F (°C)	202 (94)
Maximum Water Pump Inlet Restriction–in. H_2O* (kPa)	40* (10)
Engine Coolant Capacity–qt (L)	8 (7.5)
Recommended Pressure Cap–psi (kPa)	7 (48)
Maximum Top Tank Temp–°F (°C)	210 (99)
Minimum Coolant Fill Rate–gal/min (L/min)	3 (11)
Minimum Air to Boil–°F (°C)	117 (47)

Exhaust System

Exhaust Flow–ft³/min (m³/min) [I]	685 (19.4)
[C]	500 (14.2)
Exhaust Temperature–°F (°C) [I]	986 (530)
[C]	833 (445)
Maximum Allowable Back Pressure–in. H_2O* (kPa)	30* (7.5)
Recommended Exhaust Pipe Diameter–in. (mm)	4 (102)

Electrical System

Recommended Battery Capacity (CCA)	
12 Volt System–amp	640
24 Volt System–amp	570
Maximum Allowable Starting Circuit Resistance	
12 Volt System–Ohm	0.0012
24 Volt System–Ohm	0.002
Starter Rolling Current–12 Volt System	
At 32 °F (0 °C)–amp	780
At -22 °F (-30 °C)–amp	1000
Starter Rolling Current–24 Volt System	
At 32 °F (0 °C)–amp	600
At -22 °F (-30 °C)–amp	700

Performance Data

Rated Power–hp (kW) [I]	110 (82)
[C]	95 (71)
Rated Speed–rpm	2500
Peak Torque–lb-ft (N•m) [I]	270 (366)
[C]	259 (316)
Peak Torque Speed–rpm	1600
Low Idle Speed–rpm	850
BMEP–psi (kPa) [I]	145 (1004)
[C]	126 (870)
Friction Power @ Rated Speed–hp (kW)	29.5 (22)
Altitude Capability (w/o Derating)–ft (m)	7500 (2250)
Ratio–Air:Fuel [I]	25:1
[C]	27:1
Smoke @ Rated Speed–Bosch No. [I]	1.5
[C]	1.5
Noise–dB(A) @ 1 m [I]	99.3
[C]	98.1

Engine Speed rpm	Contin. Limit hp(kW)	Intermit. Power hp(kW)	Intermit. Torque lb-ft(N•m)	BSFC lb/hp-hr (g/kW-h)
2500	95 (71)	110 (82)	230 (312)	0.355 (216)
2400	94 (70)	109 (81)	238 (322)	0.347 (211)
2200	90 (67)	105 (78)	250 (340)	0.344 (209)
2000	85 (64)	100 (74)	261 (354)	0.340 (207)
1800	79 (59)	91 (68)	266 (364)	0.342 (208)
1600	71 (53)	82 (61)	270 (366)	0.352 (214)
1400	— —	71 (53)	267 (362)	0.367 (223)
1200	— —	59 (44)	260 (353)	0.396 (240)
1000	— —	46 (43)	246 (334)	0.460 (280)

[I] = Intermittent Data [C] = Continuous Data
Unless noted, all other values pertain to both.

Curve No. 4039T110I
Sheet 2 of 2 (06-95)

* Revised Data

All values at rated speed and power with standard options unless otherwise noted.

SFC use .36 #/hp-hr

138,000 BTU/GAL = 19,600 BTU/#

95 x .36 x 19,600 = 1.862 MMBTU/H x .36

= .67 MMBTUH

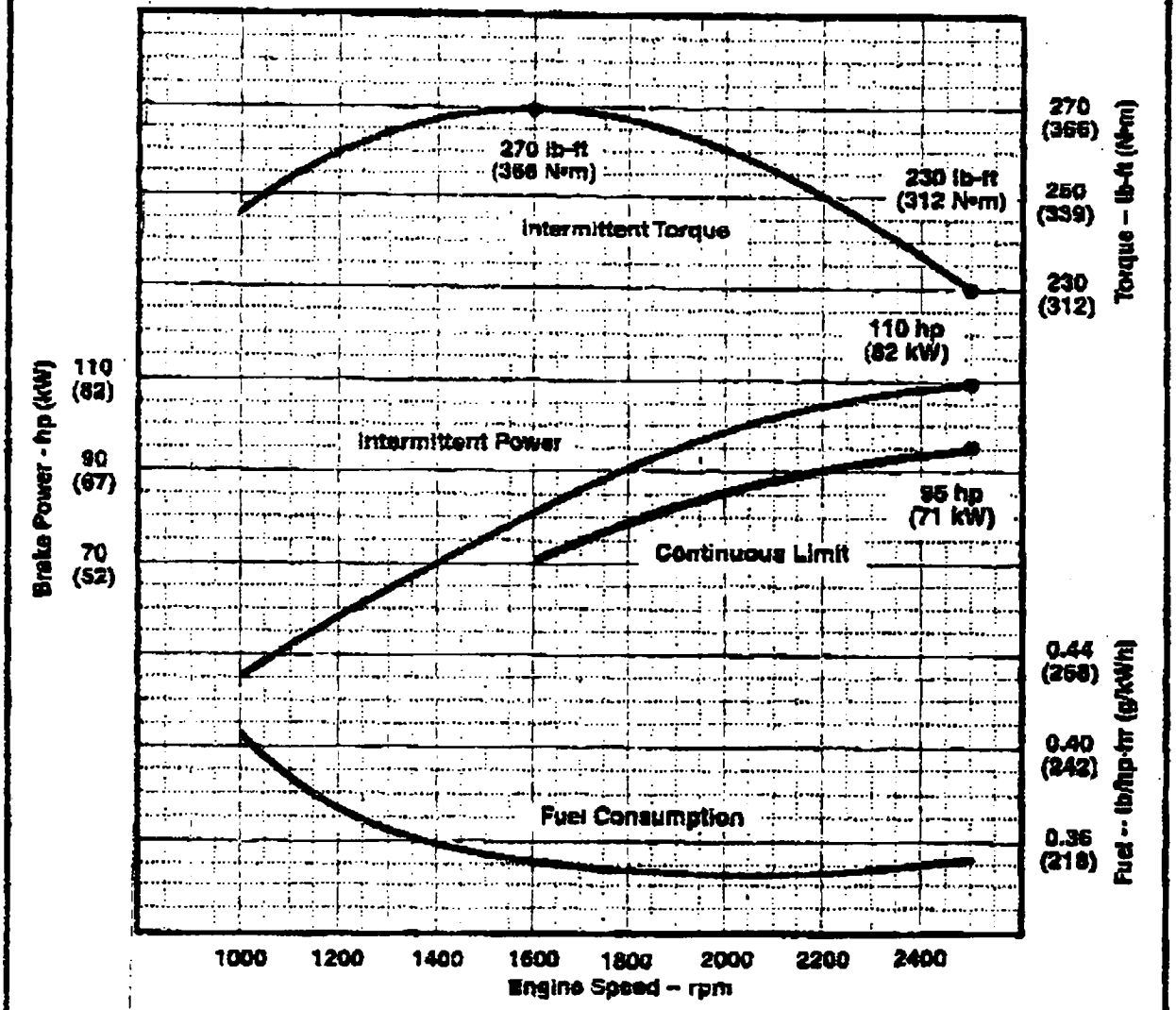
JOHN DEERE

Engine Performance Curve

Rating: Gross Power

Application: Industrial
Intermittent / Continuous

Series 300 Engine
Model: **4039T**
110 hp @ 2500 rpm
82 kW @ 2500 rpm



Air Intake Restriction – 12 in.H_2O (3 kPa) Exhaust Back Pressure – 30 in.H_2O (7.5 kPa)

Gross power guaranteed within + or - 5 % at SAE J1995 and ISO 3046
corrections: 77 °F (25 °C) air inlet temperature
29.31 in.Hg (99 kPa) barometer
104 °F (40 °C) fuel inlet temperature
0.853 fuel specific gravity @ 60 °F (15.5 °C)
Conversion factors: Power: kW = hp x 0.746
Fuel: 1 gal = 7.1 lb, 1 L = 0.95 kg
Torque: N•m = lb-ft x 1.356

Emission Certifications:
NONE

Certified by:

Curve:
4039T110I
Source Factories:
Dubuque, Saran
Date: 05-95
Sheet 1 of 2

* Revised Data

All values are from currently available data and are subject to change without notice.

FAC 3421
99-034-O

Facsimile Transmission

Date: 11 December 2001 Time: 1510 Hrs Number of Pages: 6

To: Oklahoma Department of Environmental Quality
Air Quality Division
Attn: Jack Fly
Phone: (918) 461-7400
Fax: (918) 461-7421

From: Sherwood Construction Co. Inc. / Greenhill Materials
David M. Cooper
Phone: (918) 266-6861
Fax: (918) 266-4466

Re: Air Quality Permit – Operation

Dear Jack:

Please find attached the generator engine information you request. Presently I am waiting for return information concerning the engine powering the "pug mill". Present information indicates that it is a John Deere 4 cylinder, 3.9 liter, 239 cubic inch, turbocharged diesel rated at 95 HP @ 2500 RPM. I will forward the emissions information as soon as I receive it. At the present time we will state that it is of Deminimus Status. I'm still working on the proper forms. Thanks for your help.

Sincerely,

David M. Cooper

Table 3.3-1. EMISSION FACTORS FOR UNCONTROLLED GASOLINE AND DIESEL INDUSTRIAL ENGINES[a]

Pollutant	Gasoline Fuel (SCC 2-02-003-01, 2-03-003-01)		Diesel Fuel (SCC 2-02-001-02, 2-03-001-01)		EMISSION FACTOR RATING
	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	
NO_x	0.011	1.63	0.031	4.41	D
CO	0.439	62.7	6.68 E-03	0.95	D
SO_x	5.91 E-04	0.084	2.05 E-03	0.29	D
PM-10[b]	7.21 E-04	0.10	2.20 E-03	0.31	D
CO_2[c]	1.08	154	1.15	164	B
Aldehydes	4.85 E-04	0.07	4.63 E-04	0.07	D
TOC					
Exhaust	0.015	2.10	2.47 E-03	0.35	D
Evaporative	6.61 E-04	0.09	0.00	0.00	E
Crankcase	4.85 E-03	0.69	4.41 E-05	0.01	E
Refueling	1.08 E-03	0.15	0.00	0.00	E

[a] References 2,5-6,9-14. When necessary, an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr was used to convert from lb/MMBtu to lb/hp-hr. To convert from lb/hp-hr to kg/kw-hr, multiply by 0.608. To convert from lb/MMBtu to ng/J, multiply by 430. SCC = Source Classification Code. TOC = total organic compounds.

[b] PM-10 = particulate matter less than or equal to 10 μm aerodynamic diameter. All particulate is assumed to be ≤ 1 μm in size.

[c] Assumes 99% conversion of carbon in fuel to CO_2 with 87 weight % carbon in diesel, 86 weight % carbon in gasoline, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and gasoline heating value of 20,300 Btu/lb.

FAC 3421
99-034-O

Facsimile Transmission

Date: 20 Dec 2001 Time : 0940 Number of Pages: 1

To: Oklahoma Department of Environmental Quality
Air Quality Division
Attn: Mr. Jack Fly
Phone: (918) 461-7421
Fax: (918) 461-7404

From: David Cooper
Sherwood Construction / Greenhill Materials

Re: Your Information Request

Jack: Here is the information you requested concerning the new crusher.

Manufacturer: Kolberg

Model: #3850

Date of Man: May 2001

Ser. Number: 403073-403074

Crushing Rate: 550 Tons/Hr

Call anytime. Thanks!

Cooper

FAC 3421
99-034-0

DARR POWER SYSTEMS

FAX

DATE: 11-28-00
TO: Sherwood Construction
ATTN: Darrell Worley
FAX#: 266-4666

No. of Pages 5

FROM: BARRY JANSSEN
FAX#: 918-660-2379
PHONE: 918-660-2372

Ref: Cat 3412 Generator Set S/N 81Z-17162

Darrell,
Attached please find the performance emissions data for your Cat 3412 generator set. Please let me know if you should need any additional information.

Best Regards,

Barry Janssen

-GKPGN1 - ENGINE AND GENSET MENU DATE: 11/29/00
09 - PACKAGE SET PERFORMANCE TIME: 08:42:29
3412C DI TA JW DRY MANF TURBO QTY 2 HYDRA GOV
TM3209 06 PGS STANDBY 60 HERTZ
GEN 600.0 W/F EKW 620.0 W/O F EKW 861 W/F BHP 890 W/O F BHP @ 1800 RPM
CERTIFICATION YEAR CERT AGENCY
INFO CODE 01 - GENERAL PERFORMANCE DATA *

GEN W/F EKW	PER CENT LOAD	ENG PWR BHP	ENG BMEP PSI	S FUEL CONSUM LB/BHP-HR	FUEL RATE GPH	INTAKE MANF T DEG F	INTAKE MANF P IN-HG	INTAKE AIR FL CFM	EXH MANF T DEG F	EXH STK T DEG F	EXH GAS FL CFM
600.0	100	890	237	.347	44.2	196	55.0	1861	1171	906	4982
540.0	90	803	214	.345	39.6	193	47.7	1723	1128	890	4555
480.0	80	717	191	.345	35.3	190	40.7	1582	1087	874	4135
450.0	75	674	180	.346	33.3	189	37.1	1515	1068	867	3926
420.0	70	631	168	.347	31.3	188	33.6	1441	1048	859	3711
360.0	60	546	146	.351	27.4	186	26.6	1292	1011	843	3284
300.0	50	461	123	.358	23.6	184	19.7	1144	973	826	2857
240.0	40	380	101	.367	19.9	182	14.3	1010	917	788	2451

PRESS <ENTER> FOR ADDITIONAL DATA
NEXT TRAN: INFO CODE (01) UNIT TYPE (E)
HLP-F1 ACF-F3 PGM-F4 INQ-F5 PRT-F6 IDX-F9

-GEGPE3- TMI - ENGINE AND COMP PERF DATE: 11/29/00
09 - PACKAGE SET PERFORMANCE TIME: 08:43:30
3412C DI TA JW DRY MANF TURBO QTY 2 HYDRA GOV
TM3209-06 PGS STANDBY 60 HERTZ EXH STK DIA 8.0 IN
GEN 600.0 W/F EKW 620.0 W/O F EKW 861 W/F BHP 890 W/O F BHP @ 1800 RPM

INFO CODE 05 - EMISSIONS DATA * * REFERENCE NOTES - NOT TO EXCEED * * * * * * *
EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40 PART 86 SUBPART D AND ISO 8178-1 FOR MEASURING HC, CO, CO2 AND NOX. THESE PROCEDURES ARE VERY SIMILAR TO THE METHODS DESCRIBED IN EPA CFR 40 PART 60 APPENDIX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO, METHOD 7E FOR NOX.

DATA SHOWN IS BASED ON STEADY STATE ENGINE OPERATING CONDITIONS OF 77 DEG F, 28.42 IN HG AND NUMBER 2 DIESEL FUEL WITH 35 DEG API AND LHV OF 18,390 BTU/LB.

TO PROPERLY APPLY THIS DATA YOU MUST REFER TO PERFORMANCE PARAMETER DM1176 FOR ADDITIONAL INFORMATION, (APPLICATION GEN402, PROGRAM 03).

PRESS <ENTER> TO CONTINUE
NEXT TRAN: INFO CODE (05) UNIT TYPE (E) NOM
HLP-F1 ACF-F3 PGM-F4 INQ-F5 PRT-F6 IDX-F9

-GKGPE2- TM - ENGINE AND COMP PERF DATE: 11/29/00
09 - PACKAGE SET PERFORMANCE TIME:
3412C DI TA JW DRY MANF TURBO QTY 2 HYDRA GOV
TM3209-06 PGS STANDBY 60 HERTZ EXH STK DIA 8.0 IN
GEN 600.0 W/F EKW 620.0 W/O F EKW 861 W/F BHP 890 W/O F BHP @ 1800 RPM

INFO CODE 05 - EMISSIONS DATA * * * * * RATED CONDITIONS * * STANDARD TIMING
"NOMINAL DATA"
AT RATED:

WET EXHAUST MASS	8550 LB/HR
WET EXHAUST FLOW (906 DEG F STACK TEMP)	4986 CFM
WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)...	1795 STD CFM
DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)...	1620 STD CFM
FUEL FLOW RATE	44.1 GAL/HR

PRESS <ENTER> TO CONTINUE
NEXT TRAN: INFO CODE (06) UNIT TYPE (E)
HLP-F1 ACF-F3 PGM-F4 INQ-F5 PRT-F6 IDX-F9

-GEGPE1- TMI - ENGINE AND COMP PERF DATE: 11/29/00
09 - PACKAGE SET PERFORMANCE TIME: 08:43:45
3412C DI TA JW DRY MANF TURBO QTY 2 HYDRA GOV
TM3209-06 PGS STANDBY 60 HERTZ EXH STK DIA 8.0 IN
GEN 600.0 W/F EKW 620.0 W/O F EKW 861 W/F BHP 890 W/O F BHP @ 1800 RPM

INFO CODE 05 - EMISSIONS DATA * * * * * RATED SPEED * * * * STANDARD TIMING
"NOT TO EXCEED DATA"

GEN PWR EKW	% LOAD	ENG PWR BHP	NOX (AS NO2) * * * * * * * *	CO	TOTAL HC LB/HR * * * * * * * *	PART MATTER * * * * * * * *	IN EXH (VOL) O2 (DRY) %	SMOKE OPAC %	BOSCH SMOKE NO.
600.0	100	890.4	14.72	.56	.13	1.070	9.90	5.7	1.71
450.0	75	674.2	11.82	.34	.15	.470	10.30	3.7	1.39
300.0	50	461.2	8.93	.18	.19	.330	11.10	2.7	1.29
150.0	25	253.3	5.95	.14	.18	.260	13.20	1.7	1.28
60.0	10	121.0	3.72	.15	.26	.220	15.70	1.4	1.29

PRESS <ENTER> FOR ADDITIONAL DATA
NEXT TRAN: INFO CODE (05) UNIT TYPE (E) NOM ( )
OTHER METRIC DISPLAYS: MG/NM3 ( ) PPM ( ) G/HP-HR ( )
HLP-F1 ACF-F3 PGM-F4 INQ-F5 PRT-F6 IDX-F9

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Greenhill Concrete Products, Inc.-Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.-SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067

ATTN: Phil G. Rush, President

OKG110066	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD	
MM/DD/YYYY	**MM/DD/YYYY**
03/01/2015	03/31/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non-contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
APR 15 2015
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		04/07/2015
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

I-19001620

ENTERED APR 22 2015

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

April 28, 2015

Matt Richie, Vice President, Materials
Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, LLC – Broken Arrow
P.O. Box 10
Catoosa, Oklahoma 74015

RE: OPDES Permit Modification Application, Permit No. OK0045781
Sherwood Construction Company, Inc. dba Greenhill Concrete Products, LLC,
Tulsa County, Oklahoma
Facility ID No. I-72002620

Dear Mr. Ritchie:

Your industrial wastewater treatment system Permit is enclosed. The effective date and the expiration date of this Permit appear on the cover page. The permit was publicly noticed on March 25, 2015 (in newspaper), and March 13, 2015 (by DEQ). The DEQ received no comments on the draft permit.

Blank Discharge Monitoring Report (DMR) forms are also enclosed, along with instructions for preparing and submitting them. These blank forms should be used for reporting purposes until such time as you receive your pre-printed DMR forms.

Should you have any questions regarding the final Authorization, please contact the Industrial Permits Section at the letterhead address or telephone (405) 702-8100. Should you have any questions regarding compliance with the conditions of this Authorization, please contact the Industrial Enforcement Section at the same address and phone number.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/BT/tlj DM/SLT/AR

Enclosures

AUTHORIZATION TO DISCHARGE UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NUMBER: OK0045781
ID NUMBER: I-72002620

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. §2-6-201 *et seq.*, Oklahoma Uniform Environmental Permitting Act, 27A O.S. §2-14-101 *et seq.*, and the rules of the Oklahoma Department of Environmental Quality promulgated thereunder,

Sherwood Construction Company, Inc.
DBA Greenhill Concrete Products, Inc. – Broken Arrow
P.O. Box 10
Tulsa, OK 74015

is authorized to discharge from their facility, located in the:

SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM
Tulsa County, Oklahoma
or at 1601 E. Houston Ave., Broken Arrow, OK 74012

to receiving waters identified as: unnamed tributary of Broken Arrow Creek, stream segment 120410, Water Body ID OK120410010200, in Tulsa County, Oklahoma

from: Outfall 002:

Latitude 36° 02' 32.2" N, Longitude 95° 46' 8.8" W (GPS: NAD83)
SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM,
Tulsa County, Oklahoma

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, and III, hereof.

The above referenced facility is also authorized to retain wastewater in two flow-through surface impoundments (F01, F02, F04, F05 and F06), as described in the Appendix. Surface impoundments shall be maintained in accordance with Parts I, II, and IV, hereof.

Issuance of this permit in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal and/or discharges of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and Department Rules.

This permit replaces and/or supersedes OPDES Permit No. OK0045781 that became effective on July 1, 2014 and expires June 30, 2015.

This permit shall become effective on May 1, 2015.

This permit and the authorization to operate the disposal system shall expire at midnight, on April 30, 2020.

This is to certify that the wastewater discharges set forth in this permit comply with the requirements of Oklahoma's Water Quality Standards, as amended, provided the permittee does not exceed the effluent limitations set forth in this permit.

Issued this 28th day of April, 2015.

For Oklahoma Department of Environmental Quality,

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

Shellie Chard-McClary, Director
Water Quality Division

PART I
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall 002

Limitations, Reporting Requirements and Monitoring

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002. The discharge will consist of process wastewater and associated stormwater runoff from the following three common activities: (1) mix plant area washdown, (2) truck mixer drum washout, and (3) external truck washing.

Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Limitations – Outfall 002

PARAMETERS	DISCHARGE LIMITATIONS			
	MASS LOADING LIMITS (lbs/day unless otherwise specified)		CONCENTRATION LIMITS (mg/L unless otherwise specified)	
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM
Flow STORET: 50050	Report (MGD)	Report (MGD)	--	--
Total Suspended Solid (TSS) STORET: 00530	--	--	Report	40
Oil and Grease STORET: 00552	--	--	Report	15
pH STORET: 00400	N/A	N/A	between 6.5 and 9.0 s.u.	

Monitoring Requirements – Outfall 002

PARAMETERS	MEASUREMENT FREQUENCY *	SAMPLE TYPE
Flow	1/Month	Estimate
Total Suspended Solids	1/Month	Grab
Oil and Grease	1/Month	Grab
pH	1/Month	Grab

* When discharging.

NOTE: See Parts II and III for Additional Requirements.

There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of watercourses. Surface waters of the State shall be maintained free from oil and grease and taste and odors.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings.

Samples for Outfall 002 taken in compliance with the monitoring requirements specified above shall be taken at the following location:

Outfall 002: At the pipe outlet of surface impoundment F06 and prior to discharging to the unnamed tributary of Broken Arrow Creek located in the SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14EIM, Tulsa County, Oklahoma, or at Latitude 36° 02' 32.2"N, Longitude 95° 46' 8.8"W (GPS: NAD83).

SECTION B. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule: None.

SECTION C. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III. E.4 of the permit. Monitoring results obtained during the previous month shall be summarized and reported on the Discharge Monitoring Report (DMR) forms due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section postmarked or received no later than the 15th day of the following month. If no discharge occurs during the reporting period, DMR forms stating "No Discharge" shall be submitted according to the above schedule.

The first report is due on June 15th, 2015 .

PART II
OTHER PERMIT REQUIREMENTS

A. REGULATORY NOTICE

The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements, and any and all amendments of the laws of the state of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the Director's approval, grant and issuance of this permit, permittee acknowledges receipt of true, correct, and current copies of Oklahoma's Water Quality Standards, and the rules of the Oklahoma Department of Environmental Quality, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.

B. REOPENER CLAUSE

This permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a Total Maximum Daily Load is established for the receiving stream(s), or when required as technology. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

C. LABORATORY CERTIFICATION

All laboratory analyses for the parameters specified in this permit must be performed by a laboratory certified by the Oklahoma Department of Environmental Quality for those parameters.

D. ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, effluent and/or upstream monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136 in effect on the effective date of this permit. Appendices A, B, and C to 40 CFR Part 136 are specifically referenced as part of this requirement. Amendments to 40 CFR Part 136 promulgated and incorporated by reference into OAC 252:606 after the effective date of this permit shall supersede these requirements as applicable.

E. SURFACE IMPOUNDMENT REQUIREMENTS

A minimum freeboard of one (1) foot for surface impoundments F01, F02, F04, F05, and F06 shall be maintained.

The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; additional monitoring and reporting (including but not necessarily limited to soil sampling); reclassification of wastes; sludge management plans; best management practices; closure plans; remediation and/or remediation plans; monitoring wells and/or subsurface monitoring plans; and/or other appropriate actions.

At such time as surface impoundments F01, F02, F04, F05, and/or F06 are to be permanently taken out of service or at such time as the contents of F01, F02, F04, F05, and/or F06 pose a risk to the environment or waters of the state, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.

In all other respects, F01, F02, F04, F05, and/or F06 shall be subject to standard conditions for surface impoundment contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring, and closure.

F. LAND APPLICATION

Not Applicable

G. OTHER DISPOSAL METHODS

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewater shall be disposed in a state approved industrial waste disposal site or to a company for recycling.

If any such industrial wastes are removed from the facility, the permittee shall keep accurate records which include the following information:

a. Name and address of company hauling waste.
b. The type and amount of waste hauled.
c. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the staff of the Department for inspection, review, and copying.

APPENDIX

Description of Wastewater Treatment/Disposal Surface Impoundments (S.I.s)

Classification OAC 252:616-1-2		Liner Requirements OAC 252:616-7-2(b)	Holding Capacity and/or Dimensions OAC 252:616-7-1(6) [b]	Wastewater Destination
S.I. [a]	Wastewater			
F01	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	59,252 gallons 30' x 102' x 6'	F06
F02	Wastewater from the truck washout area and associated storm water runoff Class II	Concrete	25,761 gallons 24' x 36' x 6'	F06
F04	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	5,350 gallons 11' x 25' x 5.2'	F06
F05	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	12,934 gallons 29.2' x 32' x 2.25'	F06
F06	Wastewater from the truck washout area and associated storm water runoff Class I	Concrete	47,127 gallons 30' x 60' x 3.5'	Outfall 002

[a] Designation F refers to a flow-through surface impoundment.
[b] Based on information provided in application. Freeboard requirements in Part I.D.5 must be met.

Location of Surface Impoundments

S.I.	Legal Location	General Location and Description
F01	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located southwest corner of the facility and south side of the concrete batch plant
F02	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located east of the concrete batch plant and approximately 120 feet north of the maintenance building.
F04	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 300 feet east of the maintenance building.
F05	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 120 feet north of F02.
F06	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 50 feet south of F01.

STATEMENT OF BASIS

STATEMENT OF BASIS FOR THE DRAFT AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM (OPDES).

ODEQ Permit No.:	OK0045781
Facility ID No.:	I-72002620
Applicant:	Sherwood Construction Company, Inc. DBA Greenhill Concrete Products, Inc – Broken Arrow 1640 S. 101st E. Ave. Tulsa, OK 74128
Issuing Office:	Oklahoma Department of Environmental Quality Water Quality Division 707 N. Robinson P.O. Box 1677 Oklahoma City, OK 73101-1677
Prepared By:	Brandon Tyler Industrial Permits Section
Date Prepared:	January 16, 2014
Reviewed by:	Carol Paden, P.E., Manager Industrial Permits Section
Permit Action:	Renewal of a OPDES Discharge Permit

In accordance with 40 CFR 124.8 and 124.56, this fact sheet describes the applicant's facility operation and sets forth the principal facts and the significant factual, legal, methodological, and policy questions considered in preparing the draft permit modification. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to applicable effluent limitation guidelines or performance standard provisions as required under 40 CFR 122.44. In accordance with 40 CFR 122.44(l), proposed permit limits for reissued permits are based on the more stringent of applicable technology-based limitations, applicable water quality-based limitations, or limitations in the previous permit.

Citations to 40 CFR refer to promulgated regulations listed at Title 40, Code of Federal Regulations. Citations to OAC 252 and OAC 785 refer to promulgated regulations listed at Titles 252 and 785, Oklahoma Administrative Code.

I. PERMITTING BACKGROUND

A. CHRONOLOGY OF PERMITTING ACTIVITIES

The following is a chronology of permitting activities leading up to the renewal of this permit

- 03/25/2015 Public notice published by the facility
- 03/13/2015 Public notice published by DEQ
- 03/09/2015 Public notice sent to the facility
- 02/13/2015 Courtesy draft packet sent to the facility
- 01/16/2015 Complete letter sent to the facility
- 01/13/2015 Response to incomplete letter received
- 11/20/2014 Second incomplete letter sent
- 10/29/2014 Proof of publication received
- 10/27/2014 Incomplete letter sent
- 10/23/2014 Site visit
- 10/20/2014 Receipt of renewal application

B. PROPOSED PERMITTING ACTION

It is proposed that the OPDES Permit No. OK0045781 permit be reissued for a 5-year term in accordance with regulations promulgated at 40 CFR 122.46(a) and OAC 252:606-1-3(b).

II. APPLICANT ACTIVITY

A. DESCRIPTION AND LOCATION OF FACILITY

Greenhill Concrete Products, Inc. (formerly Arrow Concrete Company) is a ready-mix concrete processing facility (SIC 3273) located in the SE¼, NW¼, NE¼ of Section 13, Township 18N, Range 14EIM, Tulsa County Oklahoma.

B. WASTEWATER GENERATION AND TREATMENT

1. Process Wastewater

Based on the permit application, the facility discharges a maximum of 458,000 GPD of treated process wastewater via Outfall 002 to an unnamed tributary of Broken Arrow Creek.

Process wastewater treatment is comprised of settling of solids and pH adjustment in flow-through surface impoundments F01, F02, F04, F05, and F06.

2. Sanitary Wastewater

The facilities sanitary wastewater needs are handled by Port-a-Johns that are routinely serviced.

III. DISCHARGE INFORMATION

A. DISCHARGE LOCATION

The discharge is to an unnamed tributary of Broken Arrow Creek, located in stream segment 120410 of the Middle Arkansas River Basin. Based on the application, the facility has one outfall and is summarized below:

Outfall	Location		Receiving Stream
	Legal Description	Latitude -Longitude	
002	SE¼, NW¼, NE¼ Sect 13, T18N, R14EIM Tulsa Co., Oklahoma	N 36° 02' 32.2" W 95° 46' 8.8" (GPS: NAD83)	Unnamed tributary of Broken Arrow Creek

B. DISCHARGE DESCRIPTION AND CHARACTERISTICS

Outfall 002: The discharge consists of process wastewater from a concrete batch plant.

a. DMR Data (November 2012 – November 2014)

Effluent Flow (MGD)

Outfall	Frequency of Discharge	Type of Measurement	Long Term Avg	High 30-day Avg	Daily Max
002	Intermittent	Record	0.0402	0.0599	0.1249

Conventional, Non-Conventional, and Priority Pollutants

Parameters	Mass Loadings (lbs/day unless otherwise specified)		Concentration/Other Units (mg/l unless otherwise specified)	
	Daily Maximum	Long-term Average	Daily Maximum	Long-term Average
Oil & Grease	---	---	30.5	8.76
Total Suspended Solids	---	---	6.6	5.11
pH	Between 6.08 – 11.2 s.u.			

b. ODEQ Application Data

Effluent Flow (MGD)

Outfall	Frequency of Discharge	Type of Measurement	Long Term Avg	High 30-day Avg	Daily Max
002	Continuous	Record	0.0641	0.458	0.458

Conventional, Non-Conventional, and Priority Pollutants

Parameter	No. of Analyses	Daily Maximum [1]	
		Concentration (mg/l)	Mass (lb/day)
BOD_5	1	16.0	---
COD	1	48.4	---
TOC	1	18.9	---
TSS	1	255	---
Ammonia (as N)	1	0.9	---
Total Dissolved Solids	1	982	---
Chloride	1	289	---
Sulfate	1	224	---
Oil and Grease	1	30.5	---

[1] ODEQ application data, Form 2C.

IV. RATIONALE FOR DETERMINING DISCHARGE PERMIT LIMITS

The following sections set forth the principal facts and the significant factual, legal, methodological, and policy considered in preparing the draft permit. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to the applicable effluent limitation guideline or performance standard provisions as required under 40 CFR 122.44, and reasons why they are applicable or an explanation of how the alternative effluent limitations were developed.

In accordance with regulations promulgated at 40 CFR 122.44(l), the draft permit limits are based on the more stringent of technology-based limitations, applicable water quality-based limitations, or the previous permit limits.

A. Technology-Based Effluent Limitations And Conditions

1. General Comments

Regulations promulgated in 40 CFR 122.44(a) and OAC 252:606-5-2(a)(1) require technology-based effluent limitations to be placed in OPDES permits based on effluent limitations guidelines, where applicable, on Best Professional Judgment (BPJ) in the absence of guidelines, or on a combination of the two.

2. Applicable Effluent Limitations Guidelines

Technology-based effluent limitations and conditions have not been promulgated for this industry.

3. Best Professional Judgment of the Permit Drafter

Under authority of the Clean Water Act and State laws, the State has developed this permit on a case specific basis since ELG's have not been developed for this industry. The Daily Maximum and Monthly Average concentrations and applicable loading limitations for these parameters are either Best Practicable Control Technology Current Available (BPT), Best Available Technology Economically Achievable (BAT), or Best Conventional Pollutant Control Technology (BCT) based on BPJ, using previous State and NPDES permits and the facility's past performance as guidance.

BPT, BAT, and BCT effluent limitations for Outfall 002 are shown in the following table.

BPT, BAT, and BCT Effluent Limitations – Outfall 002

Parameters	Monthly Average, mg/l	Daily Maximum., mg/l
Oil and Grease	Report	15
Total Suspended Solids	Report	40

4. Variance Request

No requests for variances from effluent limitations promulgated under 40 CFR have been received.

B. WATER-QUALITY-BASED EFFLUENT LIMITATIONS AND/OR CONDITIONS

1. General Comments

Section 101 of the Clean Water Act (CWA) states that "... it is the national policy that the discharge of toxic pollutants in toxic amounts be prohibited...." A permit containing technology-based permit limitations alone may not adequately protect the quality of a specific receiving stream. Thus, additional water quality-based effluent limitations and/or conditions are considered in the draft permit using narrative and numerical standards contained in the Oklahoma Water Quality Standards (OWQS), as amended (OAC 785:45), and implementation criteria contained in OAC 785:46 and 252:690, promulgated by the Oklahoma Water Resources Board (OWRB) and the Department of Environmental Quality (DEQ), respectively. This is to ensure that no point-source discharge results in instream aquatic toxicity, a violation of applicable narrative or numerical State water quality standards, or aquatic bioaccumulation which threatens human health.

2. Receiving Stream Designated Uses And Antidegradation Provisions

a. Designated Beneficial Uses

Outfall 002 discharges to an unnamed tributary of Broken Arrow Creek (WBID 120410010200) in Segment 120410 of the Middle Arkansas River Basin. As designated in Appendix A of the OWQS, the designated uses of the of the receiving stream in this segment are:

Fish and Wildlife Propagation/Warm Water Aquatic Community (OAC 785:45-5-12);
Agriculture (OAC 785:45-5-13);
Primary Body Contact Recreation (OAC 785:45-5-16);
Aesthetics (OAC 785:45-5-19); and
Fish Consumption (OAC 785:45-5-20).

b. Antidegradation Provisions

The unnamed tributary to Broken Arrow Creek is not designated as an Outstanding Resource Water (ORW), High Quality Water (HQW), or Sensitive Water Supply (SWS) in Appendix A of the OWQS. Neither is it designated in Table 1 of Appendix B of the OWQS as an area of ecological and/or recreational significance or in Table 2 of Appendix B as an area containing federally-listed endangered species.

3. Water Quality Standards Implementation Process

To achieve the objectives stated in Section IV.B.1 above, each pollutant present at measurable levels in the facility's effluent, for which there is one or more applicable numerical water quality criteria, is screened against the applicable criteria to determine whether the pollutant has reasonable potential (RP) to

exceed any of the criteria. The screens are performed in accordance with the OWQS, OWQS implementation criteria in OAC 785:46 and OAC 252:690, and the Continuing Planning Process (CPP) document. In the RP screening process, the 95th percentile effluent concentration, or estimate thereof if the effluent data set is not sufficiently large to determine it directly, is used to compute an instream concentration according to the regulatory mixing zone equations defined in OAC 785:46. The computed instream concentrations are then compared with the applicable criteria to determine whether RP is exhibited. However, after reviewing the application for this facility it was determined that there were no pollutants present at or above the applicable water quality criteria; therefore RP calculations are not needed.

4. Water Quality-Based Requirements By Designated Use

a. Fish and Wildlife Propagation/Warm Water Aquatic Community

(1) Dissolved Oxygen

Pursuant to OAC 785:45-5-12(f)(1)(A), dissolved oxygen (DO) criteria are designed to protect the diverse aquatic communities of Oklahoma. Based on the nature of the wastewater, the wastewater should not contain oxygen demanding substances at levels which would have reasonable potential to violate numerical criteria. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(2) Temperature

According to OAC 785:45-5-12(f)(2)(A), at no time shall heat be added to any surface water in excess of the amount that will raise the temperature of the receiving water more than 2.8°C at the edge of the mixing zone. Since heat is not added to the wastewater being discharged and discharge should essentially be at ambient temperature, there is no reasonable potential to violate temperature criterion. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(3) pH

OAC 785:45-5-12(f)(3) states, "the pH values shall be between 6.5 and 9.0 in waters designated for fish and wildlife propagation; unless pH values outside that range are due to natural conditions." Therefore, the draft permit establishes a lower pH limit of 6.5 standard units and an upper limit of 9.0 standard units.

(4) Oil and Grease

According to OAC 785:45-5-12(f)(4), "all waters having the designated beneficial use of any subcategory of Fish and Wildlife Propagation shall be maintained free of oil and grease to prevent a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of watercourses or which cause deleterious effects to the biota." A narrative (water quality-based) condition requiring conformance to OAC 785:45-5-12(f)(4) is included in the draft permit. In addition, a daily maximum concentration limit of 15 mg/l for oil and grease will be placed in the draft permit for Outfall 002 to implement the narrative criteria of "no visible sheen".

(5) Biological Criteria

Pursuant to OAC 785:45-5-12(f)(5), aquatic life in all water bodies with the beneficial use designation of Fish and Wildlife Propagation (excluding waters designated "Trout, put-and-take") shall not exhibit degraded conditions. Based on the nature of the wastewater, the treated wastewater is not expected to degrade the diversity, similarity, community structure, species tolerance, trophic structure, dominant species, indices of biotic integrity, indices of well being, or other measures. Therefore, no permit limit or monitoring requirement is imposed for this criterion.

(6) Toxic Substances

In accordance with OAC 785:45-5-12(f)(6)(A), surface waters of the state shall not exhibit acute toxicity and shall not exhibit chronic toxicity outside the chronic regulatory mixing zone. Based on the permit application, the discharge does not contain toxic substances at levels that could result in acute or chronic toxicity to fish or wildlife. Since the facility is a minor discharger, whole effluent toxicity (WET) testing is not required.

(7) Turbidity

OAC 785:45-5-12(f)(7) states that turbidity from other than natural sources shall be restricted so as not to exceed the numeric limit of 50 NTUs for surface waters that have a beneficial use of Warm Water Aquatic Community. The draft permit includes a technology-based limitation for TSS (a daily maximum limit of 40 mg/L) and a water quality-based narrative requirement for suspended solids. It is the BPJ of the permit writer that limitation on TSS should adequately control turbidity in the facility's discharge.

b. Protection of Agriculture Use

Per information provided in the permit application, the discharge does not contain chlorides, sulfates, or total dissolved solids at levels which would require water quality limitation and/or monitoring.

c. Primary Body Contact Recreation

Per information provided in the permit application, the discharge does not contain any sanitary waste. Therefore, coliform bacteria, escherichia coli (E. coli), and/or enterococci are not expected to be present at levels which would require water quality limitation and/or monitoring.

OAC 785:45-5-16(a) states "The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings." The draft permit will contain a narrative stating the prohibition of these conditions for Outfall 002.

d. Protection of Aesthetics Use

Aesthetics use is determined in accordance with OAC 785:45-5-19, which states, "the surface waters of the state must be free from floating materials and suspended substances that produce objectionable color and turbidity." A narrative requirement is established in the draft permit to prohibit the discharge of floating solids or visible foam in other than trace amounts. In addition, the technology-based numerical effluent limitations of a 40 mg/L daily maximum for TSS should also help to maintain the narrative water quality criteria for TSS.

e. Fish Consumption

In accordance with OAC 785:45-5-20(a), "surface waters of the state shall be maintained so that toxicity does not inhibit ingestion of fish and shellfish by humans." Per information provided in the permit application, the discharge does not contain pollutants at levels which would require fish consumption water quality limitation and/or monitoring.

C. Effluent Monitoring Requirements

Since it was determined that there were no pollutants present for which RP calculations would be needed, further effluent monitoring is not justified.

D. 303(d) Listing Evaluation

1. Water Quality Assessment and Causes of Impairment

The segment of Broken Arrow Creek which Outfall 002 discharges to is not listed as an impaired water body on Oklahoma's 2012 303(d) list.

2. 303(d) List-Related Permitting Actions

The permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge(s) to the receiving water(s), a Total Maximum Daily Load is established for the receiving stream(s), new water quality criteria isestablished, or a different technology based guideline is promulgated. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

E. Antidegradation Requirements

As stated in Section V.B, no antidegradation restrictions apply to the segments of a unnamed tributary of Broken Arrow Creek. Implementation of the state's antidegradation policy, as described at OAC 785:46, Subchapter 13, requires no further protection beyond the Tier 1 level (maintenance and protection of designated uses) for these receiving waters.

F. Protection of Endangered and Threatened Species and Critical Habitat

The receiving stream to which the facility discharges is not considered by the U.S. Fish and Wildlife Service (USFWS) to be a sensitive area for endangered or threatened species. Therefore, consultation with the USFWS is not required.

V. NON-DISCHARGE REQUIREMENTS

A. Surface Impoundment

Descriptions of surface impoundments are shown in the table on the following page.

Description of Surface Impoundments (S.I.)

Classification OAC 252:616-1-2		Liner Requirements OAC 252:616-7-2(b)	Holding Capacity and/or Dimensions OAC 252:616-7-1(6)	Wastewater Destination
S.I. (*)	Wastewater			
F01	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	59,252 gallons 30' x 102' x 6'	F03 and F06
F02	Wastewater from the truck washout area and associated stormwater runoff - Class II	Concrete	25,761 gallons 24' x 36' x 6'	F03 and F06
F04	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	5,350 gallons 11' x 25' x 5.2'	F03 and F06
F05	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	12,934 gallons 29.2' x 32' x 2.25'	F03 and F06
F06	Wastewater from the truck washout area and associated stormwater runoff - Class I	Concrete	47,127 gallons 30' x 60' x 3.5'	Outfall 002

(*) Designation F refers to flow-through surface impoundment.

Location of Surface Impoundments

S.I.	Legal Location	General Location and Description
F01	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located southwest corner of the facility and south side of the concrete batch plant
F02	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located east of the concrete batch plant and approximately 120 feet north of the maintenance building.
F04	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 300 feet east of the maintenance building.
F05	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 120 feet north of F02.
F06	SE¼, NW¼, NE¼, Section 13, Township 18N, Range 14 EIM, Tulsa County, Oklahoma	Located approximately 50 feet south of F01.

1. **Wastewater Classification [OAC 252:616-1-2]**

The wastewater generated from truck washout and associated stormwater runoff at this facility, was tested in a previous permit for classification. Due to high pH, surface impoundments F01, F02, F05, and F06 were classified as Class I wastewater and F02 was determined to be Class II wastewater.

2. **Freeboard Requirements (OAC 252:616-7-1(7))**

Pursuant to OAC 252:616-7-1(7), a minimum freeboard of one (1) foot shall be maintained for surface impoundments F01, F02, F04, F05, and F06.

3. **Depth to Groundwater (OAC 252:616-7-1(4)(B))**

Review of the December 7, 2009 engineering report, shows that the minimum groundwater separation from the bottom of surface impoundments F01, F02, F04, F05, and F06 is approximately 2.5 feet. Since surface impoundments F01, F02, F04, F05, and F06 contain concrete liners, it is the Best Professional Judgment of the permit writer that the depth to groundwater requirement of OAC 252:616-7-1(4) is satisfied.

4. **Liner Requirements (OAC 252:616-7-2(b))**

Surface impoundments F01, F02, F04, F05 and F06 have a concrete liner. Since the wastewater being retained is Class I and Class II, it is BPJ that concrete liners are an appropriate and compatible liner system in accordance with OAC 252:616-7-2(b).

5. **Additional Requirements (OAC 252:616-11 or OAC 252:616-13)**

The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.

At such time as surface impoundments F01, F02, F04, F05 and/or F06 to be permanently taken out of service or at such time as the contents of F01, F02, F04, F05 and/or F06 pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-11 or OAC 252:616-13.

B. Land Application

Not applicable.

VI. DRAFT PERMIT LIMITS AND OTHER REQUIREMENTS

A. EFFLUENT LIMITATIONS

Permit requirements are based on OPDES regulations (40 CFR Parts 122, 124, and 136) and OAC 252:606.

Outfall 002

Parameters	Technology-based		Water Quality-based		Previous Permit		Draft Permit	
	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l	Maximum Daily, mg/l	Monthly Average, mg/l
Flow (MGD)	---	---	---	Report (MGD)	Report (MGD)	Report (MGD)	Report (MGD)	Report (MGD)
Oil and Grease	15	Report	---	---	15	Report	15	Report
Total Suspended Solids (TSS)	---	---	40	Report	40	Report	40	Report
pH	Between 6.0 – 9.0 s.u.		Between 6.5 - 9.0 s.u.		Between 6.5 - 9.0 s.u.		Between 6.5 - 9.0 s.u.	

Parameters	Draft Permit	
	Frequency	Sample Type
Flow	1/Month	Estimated
Oil and Grease	1/Month	Grab
TSS	1/Month	Grab
pH	1/Month	Grab

B. EVALUATION FOR PERFORMANCE-BASED MONITORING FREQUENCY REDUCTIONS

In accordance with OAC 252:690-91, since the permit does not contain any monthly average limits, performance-based monitoring frequency reductions are not applicable.

VII. SUMMARY OF CHANGES FROM PREVIOUS PERMIT

- No changes made from the previous permit.

VIII. ADMINISTRATIVE RECORD

The following sources were used to prepare this permit and constitute a part of the administrative record for this permit:

A. APPLICATIONS

OPDES Industrial Permit Application No. OK0045781 (Forms 1, 2C, and 2SI), received October 20, 2014.

B. CLEAN WATER ACT CITATIONS

Section 301, 303(d), and 402(a)

C. 40 CFR CITATIONS

40 CFR, in particular, Parts 122, 124, 136

D. STATE LAW, STANDARDS, AND RULES AND REGULATIONS

- Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S., §2-6-201 et seq.
- OAC 252:606, 616, and 690
- Oklahoma's Water Quality Standards, as amended
- Oklahoma Continuing Planning Process Document (CPP)

E. MISCELLANEOUS

- 2012 303(d) list
- The permit file

IX. CERTIFICATION AND FINAL DETERMINATION

A draft permit and draft public notice will be sent to the District Engineer, Corps of Engineers, Oklahoma Conservation Commission, and to the Regional Director of the U.S. Fish and Wildlife Service upon publication of that notice. If comments are received from these agencies or other State or Federal agencies with jurisdiction over fish, wildlife, or public health, the permit may be denied or additional conditions may be included in accordance with regulations promulgated under 40 CFR 124.59.

The public notice describes the procedures for the formulation of final determinations.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Greenhill Concrete Products, Inc.-Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.-SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067

ATTN: Phil G. Rush, President

OKG110066	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
04/01/2015	04/30/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non-contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
MAY 08 2015
WATER QUALITY DIVISION

ENTERED MAY 12 2015

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		05/04/2015
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

I-19001620

Industrial ID: 19001620 Date: 09-13-32AM 06-24-2015

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID 19001620 Permit No. County CREEK SIC

Name of Facility 7905 S Regency Dr Address City Zip

Name of Owner Arrow Concrete Address City Zip

Name of Contact Position Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIE
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01	☐	
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02	☐	
	616-7-1	Treatment system properly operated and maintained	03	☐	
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04	☐	
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05	☐	
	** 2-6-501	Wastes from treatment structures properly disposed	06	☐	
	** 2-6-501	Waste hauler and disposal site recorded	07	☐	
	616-7-1	Impoundment dikes properly constructed	08	☐	
	616-7-1	Impoundment freeboard is as permitted	09	☐	
	616-7-1	Dikes or liners properly maintained	10	☐	
	616-5-1	Facility and/or impoundment access restricted	11	☐	
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12	☐	
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: Contract laboratory / Facility Samples analyzed by: Contract laboratory / Facility	*13	☐	
	606-11-2	Approved analytical procedures and equipment used	14	☐	
	606-1-3(b)(3)(W)	QA/QC records maintained	15	☐	
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16	☐	

	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	***17**	☐	Facility shut down as of Fall 2014 and will only be used as an emergenc y backup.
	606-11-4	**SMR/DMR data matches laboratory results sheets**	***18**	☐	
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19	☐	
	606-11-5	**Flow measurement methods adequate**	***20**	☐	
	606-11-5	Correct sampling location	21	☐	
	606-11-2	Correct sampling methods used	22	☐	
	606-11-2	Sample holding times not exceeded	23	☐	

Industrial ID: 19001620 Date: 09-13-32AM 06-24-2015

606-11-2	Calibration records for instruments and equipment maintained	24	☐
606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25	☐
606-5-1	No visible oil sheen (violation of OWQS)	26	☐
606-5-1	No visible foam or solids (violation of OWQS)	27	☐

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Clean-out impound ment followed by 5 flow through impound ments then to a discharge point on south side of property.

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist: Newby, Josh Employee ID#: 6400

Environmental Specialist Signature

Copy received by: Randy Beeson Title: General Manager

Copy Received By Signature

FACILITY STATUS:

☐ 28 : Repeat Violation(s)

☐ 29 : Under current enforcement action

☑ 30 : No Violation Noted

PURPOSE OF VISIT

☑ 31 : Compliance Monitoring

☐ 32 : Complaint No.

☐ 33 : Follow-Up

☐ 34 : Emergency/Disaster

ACTION

☑ 35 : None

☐ 36 : Notice to Comply by: date

☐ Next Inspection

☐ 37 : Refer to WQD

Date: 6/24/2015

Total number of items marked: 0

Number of critical items marked: 0

TYPE CLASS

☐ 74 : R Lagoon, Total Reter

☐ 74 : L Land Application

☐ 74 : D Discharging Lagoon

☑ 74 :D1 Discharging Lagoon

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

APPLICATION/PERMIT ISSUANCE EVENT TRACKING AIR QUALITY DIVISION

RECEIVED
OCT 03 2005
By

Company Name: GREENHILL MATERIALS FAC 6046

Facility Name: WEST QUARRY

City: TULSA County: TULSA AIRS ID:

(Newest) Permit Number: 2005-021-C Engineer: H. NEUMANN

Steps			Date	Initials
Fee Received Amount: $400	Receipt No.	RDAT	10/3/05	LH
Facility Type / RDI: SM 10 Title V ___ Synthetic-minor ___ Non Title V X Application Type: Applicability Determination ___ Construction X Operation ___ Title V: GOP X Modification ___ Relocation ___ PBR ___				MC 10-4-05
Confidential Information Included: No Yes (Requires a separate file)			10/3/05	HN
Tier Classification: I: X II: ___ III: ___ N/A				10-5-05 MC
Tracking Log Entry and Distributed to Engineer				
Administrative Review (Start date is the date application received by AQD)				
• Fee Assessment → Total Due: $400 Total Received: $400			10/3/05 10/3/05	HN HN
• Landowner Affidavit Received				
• Filing Notice Received (Only Tier II & III)				
• EPA Transmittal Form Received (Only Title V)				
• Notice of Deficiency	[redacted]	[redacted]		
• Response				
• Completeness Letter Sent				
Technical Review (Start date, same date as completeness letter sent)				
• Notice of Deficiency 1 / PFA 1 / PLA (circle one)	[redacted]	X [redacted]	10/6/05	HN
• Response 1 (circle (yes/no), date and initial)	Back to Tech Review	Yes or No	11/1/05	HN
• Notice of Deficiency 2 / PFA 2 / PLA (circle one)	[redacted]	[redacted]		
• Response 2 (circle (yes/no), date and initial)	Back to Tech Review	Yes or No	11/23/05	HN
Draft Permit Prepared by Engineer			11/28/05	SC
Peer Reviewer - enter name here: SUSY WIPPLES				
Enforcement Review / Coordination	[redacted]	[redacted]		
Technical Review – Supervisor -	[redacted]	X [redacted]	11-29-05	RK
Final Approval by Permit Chief Engineer (Tier I, II, III, or AD)			11-29-05	DJC
Draft Permit Public Notice (Tier II & III) Approval by Chief Engineer			N/A	RK
• Distributed to: [redacted] Date: Initial: [redacted]				
• Draft Permit Publication Notice Published: Date: Received:				
• [redacted] Date: [redacted] Date: [redacted] Date: [redacted]				
• Public Meeting Held				
Proposed Permit Public Notice (Tier II & III) Approval by Chief Engineer				
• Distributed to: [redacted] Date: Initial: [redacted]				
• Proposed Permit Publication Notice Published: Date: Received:				
• [redacted] Date: [redacted] Date: [redacted] Date: [redacted]				
• Response to Comments Mailed				
Final Approval by Director AQD (Tier II & III)				
Final Approval by Executive Director DEQ (Tier III)				
Final Processing			NOV 29 2005	LH
• Distribution to: Applicant ___, ECLS Office ___, EPA ___, Internal ___			11/30/05	HN
• Date Permit Writer Entered Electronic Copy of Permit into Permit Archive				
• File Created in File Room				

AIRS Updates:	Draft (date):		EPA Rec'd:		AIRS Issued:		
WEB Update:	Post Draft:		Proposed:		Remove Issued		Post PSD

Initial and Date each Step when it is complete or mark N/A. Keep this Tracking Form with Permit through all Steps.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

November 30, 2005

Greenhill Materials Co., LC
Attn: John R. Curtis, General Manager
P.O. Box 10
Catoosa, OK 74015

Subject: Authorization to Construct No. **2005-021-C**
Greenhill Materials West Quarry
W/2 SE/4 Section 8, T20N, R14E, Tulsa County, Oklahoma

Dear Mr. Curtis:

Enclosed is the Authorization to Construct the referenced facility. Please note that this Authorization is issued subject to conditions of the Nonmetallic Mineral Processing Facility General Permit, which is attached. These conditions must be carefully followed since they define the limits of the permit and will be confirmed by periodic inspections.

Also note that you are required to annually submit an emission inventory for this facility. An emission inventory must be completed on approved AQD forms and submitted (hardcopy or electronically) by March 1st of every year. Any questions concerning the form or submittal process should be referred to the Emission Inventory Staff at 405-702-4100.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 293-1600. Air Quality personnel are located in the DEQ Regional Office at Tulsa, 3105 E. Skelly Drive, Suite 200, Tulsa, OK, 74105.

Sincerely,

Herb Neumann
AIR QUALITY DIVISION

enclosures: 1. Nonmetallic Mineral Processing Facility General Permit
2. Authorization to Construct

AUTHORIZATION TO CONSTRUCT

PURSUANT TO THE TERMS OF THE NONMETALLIC MINERAL PROCESSING FACILITY GENERAL PERMIT

Air Quality Division
State of Oklahoma
Department of Environmental Quality
707 North Robinson
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Authorization No.:	2005-021-C
Effective Date:	NOV 2 9 2005
Facility Name:	Greenhill Materials West Quarry **SIC Code:** 1422
Facility Location:	W/2 SE/4 Section 8, T20N, R13E, Tulsa County, OK
Company Name:	Greenhill Materials Co., LC
Mailing Address:	P.O. Box 10, Catoosa, OK, 74015
Contact Person:	John R. Curtis, General Manager (918-266-6861)

This Authorization is issued pursuant to **OAC 252:100-7-15 and 252:100-7-18.**

Authorization is hereby granted the above named entity to construct the emission units, emission points, and other processes listed herein which are located at the above described minor facility (Facility) pursuant to the terms of the Nonmetallic Mineral Processing Facility General Permit as issued by the Oklahoma Department of Environmental Quality, Air Quality Division, on May 9, 2000. The Authorization addresses only those emission sources listed herein and only while located at the Facility.

Chief Engineer, Air Quality Division

Except as otherwise prohibited or limited by the Permit or this Authorization, the permittee is hereby authorized to construct the following emission sources and/or conduct the following activities at the referenced site, described in the application received on October 3, 2005. The Evaluation Memorandum, dated November 29, 2005, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operation under this permit constitutes acceptance of, and consent to, the conditions contained herein.

I. Emission Units and Numerical Limitations

Emission limitations are hereby established for all regulated pollutants as a facility-wide cap. Emissions from all emission units at the facility shall not equal or exceed major source thresholds, i.e., 100 TPY of any regulated pollutant or 10 TPY of any single HAP or 25 TPY of any combination of HAPs.

Compliance with these emission limitations shall be determined on a monthly rolling basis. The estimate shall be annualized using a monthly average during the first 11 months following issuance of this Authorization. However, any facility with actual emissions of each regulated air pollutant less than 80% of the major source thresholds may make this determination annually. The facility throughput shall be maintained at such a level as to not exceed the annual facility-wide emissions limitations.

II. Monitoring and Recordkeeping Requirements

The permittee shall demonstrate continued compliance with any emission limitations or any operational conditions as specified in the permit (summarized in Table 5 of the Evaluation Memorandum).

III. Equipment Additions/Authorization Modifications

Construction of additional emission units (as provided by the Nonmetallic Mineral Processing Facility General Permit), or operational changes (e.g., changes in tank contents to another organic liquid or increases in throughput), may be allowed over the life of this Authorization without obtaining an Authorization to Construct so long as facility-wide emissions do not exceed that amount which would cause the facility to be classified as a major source.

Written notification of intent to construct, or to make operational changes (e.g., changes in tank contents or increases in throughput), must be provided to DEQ within 7 days of the start of operation. Neither an Authorization to Construct nor a new Authorization to Operate is required for these changes.

Operation of additional emission units authorized under an individual construction permit (e.g., those requiring a site-specific determination) requires issuance of a new Authorization to Operate for the facility (see Part 4, section II.C of the permit). The permittee shall make application for a

new Authorization to Operate within 60 days of commencing operation of such additional emission units.

IV. Previous Permits

None.

V. Equipment List

The inventory listed in Table 1 shows the emission units at the facility.

Table 1: Equipment List

Emission Unit EUG & ID#	Description	Const. Date	NSPS Subpart
1-Unload01	Truck unloading	3/06	-
1-CR-1	Crusher, Primary	2001	OOO
1-CR-2	Crusher, secondary	2001	OOO
1-S-1	Primary screen	2003	OOO
1-S-2	Secondary screen	2001	OOO
1-PM-1	Pugmill	2005	
1-C-01	Transfer point	3/06	OOO
1-C-02	Transfer point	3/06	OOO
1-C-03	Transfer point	3/06	OOO
1-C-04	Transfer point	3/06	OOO
1-C-05	Transfer point	3/06	OOO
1-C-06	Transfer point	3/06	OOO
1-C-07	Transfer point	3/06	OOO
1-C-08	Transfer point	3/06	OOO
1-C-09	Transfer point	3/06	OOO
1-C-10	Transfer point	3/06	OOO
1-C-11	Transfer point	3/06	OOO
1-RS-1	Transfer point	3/06	OOO
1-RS-2	Transfer point	3/06	OOO
1-RS-3	Transfer point	3/06	OOO
1-RS-4	Transfer point	3/06	OOO
1-RS-5	Transfer point	3/06	OOO
1-SP	Stockpiles (1.8 acres)	3/06	OOO
1-SS-1	Sand screw	2005	OOO
Fugitives	Unpaved roads	-	-

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **November 29, 2005**

TO: DFL Dawson Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: RK Richard Kienlen, P.E., Eng. Mgr. II, New Source Permits Section

THROUGH: Peer review, Judy Cupples

FROM: Herb Neumann
Regional Office at Tulsa

SUBJECT: Evaluation of Permit Application **No. 2005-021-C**
Authorization to Construct a Rock Crushing Plant
Nonmetallic Mineral Processing Facility General Permit
Greenhill Materials West Quarry
W/2 SE/4 Section 8, T20N, R13E, Tulsa County
Driving directions: From the intersection of US 169 and OK 266 (46th Street North) northeast of Tulsa, approximately 1/2 miles east, plant on left (north).

ELIGIBILITY

Greenhill Materials has applied for an authorization to construct a limestone aggregate processing facility (SIC 1422) in an attainment area. The maximum plant process rate is planned to be 600 tons per hour (TPH) or 1,800,000 tons per year (TPY). The facility will consist of two crushers, two screens, a pugmill, 11 conveyors, five radial stackers, a sand screw, and a feed hopper. The facility will use diesel-fired front-end loaders, but all other equipment will use electricity.

The current application under discussion is for an Authorization to Construct under the Nonmetallic Mineral Processing Facility General Permit (GP) that was issued on May 9, 2000, and includes a request to establish a facility-wide emissions cap (< 100 TPY of any criteria pollutant and/or < 10 TPY of any single HAP or < 25 TPY of a combination of HAPs) in order to avoid other applicable requirements, i.e., Part 70 requirements. The applicant is not subject to a compliance schedule.

The facility is designed for the primary purpose of processing nonmetallic minerals. No emission units are proposed for operation at the facility that are not addressed in the Nonmetallic Mineral Processing GP. The facility is eligible for coverage.

EQUIPMENT

The following table shows equipment planned for the facility. Control is supplied in some areas by dust suppression equipment, such as spray bars, while the wash portion of the plant carries wet material, approximating a slurry. The word "wet" is used for all of these, with more detail found in the discussion of emissions. Construction dates for certain items are known and all others are identified with the proposed first operations date.

Table 1: Equipment List

Emission Unit EUG & ID#	Description	Const. Date	Control Equipment	NSPS Subpart
1-Unload01	Truck unloading	3/06	None	-
1-CR-1	Crusher, Primary	2001	Wet	OOO
1-CR-2	Crusher, secondary	2001	Wet	OOO
1-S-1	Primary screen	2003	Wet	OOO
1-S-2	Secondary screen	2001	Wet	OOO
1-PM-1	Pugmill	2005	Wet	
1-C-01	Transfer point	3/06	Wet	OOO
1-C-02	Transfer point	3/06	Wet	OOO
1-C-03	Transfer point	3/06	Wet	OOO
1-C-04	Transfer point	3/06	Wet	OOO
1-C-05	Transfer point	3/06	Wet	OOO
1-C-06	Transfer point	3/06	Wet	OOO
1-C-07	Transfer point	3/06	Wet	OOO
1-C-08	Transfer point	3/06	Wet	OOO
1-C-09	Transfer point	3/06	Wet	OOO
1-C-10	Transfer point	3/06	Wet	OOO
1-C-11	Transfer point	3/06	Wet	OOO
1-RS-1	Transfer point	3/06	Wet	OOO
1-RS-2	Transfer point	3/06	Wet	OOO
1-RS-3	Transfer point	3/06	Wet	OOO
1-RS-4	Transfer point	3/06	Wet	OOO
1-RS-5	Transfer point	3/06	Wet	OOO
1-SP	Stockpiles (1.8 acres)	3/06	NA	OOO
1-SS-1	Sand screw	2005	Wet	OOO
Fugitives	Unpaved roads	-	NA	-

EMISSIONS

Criteria Pollutants

Emissions from the nonmetallic mineral processing equipment are based on the 600 TPH maximum capacity of the plant, considering controls, and using the applicant's proposed annual throughput limit of 1,800,000 tons. Air emissions at the facility result primarily from particulate matter from the crushing/sizing operations. Air emissions are controlled by water suppression and spray bars. Uncontrolled emission factors used by the facility are consistently greater than or equal to those listed in Table 11.19.2-2 of AP-42 (8/04). Additionally, the facility's controlled factors, calculated by multiplying the uncontrolled factors by the various control efficiencies claimed, yield factors consistently equal to or greater than the controlled factors listed in AP-42. If process emissions were not limited to 3,000 hours of operation annually, and assuming equipment to be used in the same proportions as outlined here, the potential to emit (PTE) for this facility would be 9.3 TPY of PM_{10}. Removing water suppression from the crusher plant in addition to allowing continuous operation would bring emissions close to the major source threshold. This facility is well suited for the GP authorization.

Table 2: Emissions from Process Equipment

Emission Point*	Control %	Process rate, TPH	Annual hours	PM_{10} factor, lb/Ton	PM_{10} Emissions	
					Lb/hr	TPY
Crusher plant operations						
Truck unloading	-0-	600	3,000	1.6×10^{-5}	0.010	0.014
F-1 to Cr-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
Cr-1	75	600	3,000	2.4×10^{-3}	0.360	0.540
Cr-1 to C-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
C-1 to C-2	90	600	3,000	2.9×10^{-3}	0.174	0.261
C-2 to S-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
S-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
S-1 to C-3	90	150	2,250	2.9×10^{-3}	0.044	0.049
C-3 to RS-1	90	150	2,250	2.9×10^{-3}	0.044	0.049
RS-1 to pile	90	150	2,250	2.9×10^{-3}	0.044	0.049
S-1 to C-4	90	250	750	2.9×10^{-3}	0.073	0.027
C-4 to RS-2	90	250	750	2.9×10^{-3}	0.073	0.027
RS-2 to pile	90	250	750	2.9×10^{-3}	0.073	0.027
S-1 to C-5	90	450	3,000	2.9×10^{-3}	0.131	0.196
C-5 to Cr-2	90	450	3,000	2.9×10^{-3}	0.131	0.196
Wash plant operations						
Cr-2	90	450	3,000	2.4×10^{-3}	0.108	0.162
Cr-2 to C-6	100	450	3,000	2.9×10^{-3}	-0-	-0-
C-6 to C-7	100	450	3,000	2.9×10^{-3}	-0-	-0-
C-7 to S-2	100	450	3,000	2.9×10^{-3}	-0-	-0-
S-2	100	450	3,000	2.9×10^{-3}	-0-	-0-
S-2 to SS-1	100	100	3,000	2.9×10^{-3}	-0-	-0-

Emission Point*	Control %	Process rate, TPH	Annual hours	PM_{10} factor, lb/Ton	PM_{10} Emissions	
					Lb/hr	TPY
SS-1 to RS-4	100	100	3,000	2.9×10^{-3}	-0-	-0-
RS-4 to pile	100	100	3,000	2.9×10^{-3}	-0-	-0-
S-2 to C-8	100	113	3,000	2.9×10^{-3}	-0-	-0-
C-8 to RS-3	100	113	3,000	2.9×10^{-3}	-0-	-0-
RS-3 to pile	100	113	3,000	2.9×10^{-3}	-0-	-0-
S-2 to C-9	100	125	3,000	2.9×10^{-3}	-0-	-0-
C-9 to C-10	100	125	3,000	2.9×10^{-3}	-0-	-0-
C-10 to Cr-2	100	125	3,000	2.9×10^{-3}	-0-	-0-
S-2 to C-11	100	142	3,000	2.9×10^{-3}	-0-	-0-
C-11 to RS-5	100	142	3,000	2.9×10^{-3}	-0-	-0-
RS-5 to pile	100	142	3,000	2.9×10^{-3}	-0-	-0-
Pugmill operations						
Loader to pugmill	100	550	2,500	2.9×10^{-3}	-0-	-0-
Pugmill to trucks	100	550	2,500	2.9×10^{-3}	-0-	-0-
				Totals	**1.96**	**2.64**

* F-1 means feeder number 1, Cr-2 means crusher number 2, C-3 means conveyor number 3, S-1 means screen number 1, RS-2 means radial stacker number 2, pile means any of several stockpiles, SS-1 means the sand screw, and FH-1 means feed hopper number 1.

There are also emissions of fugitive dust from the haul roads and stockpiles. However, since haul road and stockpile fugitive emissions are not counted towards determining major source status, emission estimates are calculated for these activities only as a memorandum exercise. Fugitive emissions of particulate for vehicle travel were calculated using empirical formula 1a from Section 13.2.2.2 of AP-42 (12/03),

$$E = k(s/12)^a(W/3)^b$$

where,
E = emission factor (lb/VMT, VMT = vehicle miles traveled)
s = percent of silt
W = mean weight (tons)
a, b, k = constants from Table 13.2.2-2.

VMT for haul roads and plant roads is calculated by dividing the total tonnage to be hauled by the average weight for each truck to calculate the number of loads and multiplying the result by the mileage traversed by each load. Multiplying E times the VMT for each activity yields particulate emissions. Note that dividing the VMT for each activity by 3,000 hours of operation yields an estimate of VMT/hr and therefore an estimate of lb/hr of emissions. The following table presents the data and emission results. The facility proposes to finish 1,800,000 TPY of products. The roads are watered, for which AP-42 allows a 70% control factor. The final emission numbers are the only place where this reduction is reflected. Only data related to PM_{10} emissions are used.

Table 3: Fugitives

Datum	Plant roads	Haul roads
k	0.35	0.35
a	0.9	0.9
b	0.45	0.45
s	10	9.6
W	31.75	79.25
E	0.86	1.25
Annual tonnage	1,800,000	1,800,000
Average load	31.75	79.25
Miles per load	0.5	1.5
Annual VMT	43,900	27,480
MPH	10	20
PM_{10} emissions	12.6 lb/hr	11.5 lb/hr
	18.9 TPY	17.2 TPY

Storage pile PM_{10}emissions were calculated using the formula

$$E = 0.0032\ k \times (u/5)^{1.3} \div (M/2)^{1.4},$$

where k = 0.0032 for PM_{10}, u (wind speed) = 10 mph, and M (moisture content) = 10%. Thus, E is 2.75×10^{-3} lb/ton, and for 1.8×10^{6} tons per year, PM_{10} emissions are 2.48 TPY.

Note that the fugitive emissions identified in the following table of total emissions are not used in determining if the facility is major.

Table 4: Facility-wide Total PM_{10} Emissions

Sources	Lb/hr	TPY
Process Equipment	1.96	2.64
Fugitives	24.1	36.1
Storage pile(s)	0.57	2.48
Totals	26.6	41.2

Hazardous Air Pollutants (HAPs)

There are no identifiable HAP emissions.

Other Regulated Pollutants

No other regulated pollutants of concern are emitted from this facility except at negligible levels.

PREVIOUS PERMITS

This is a new facility and no permits have been issued previously.

EMISSION LIMITATIONS

Emission limitations are established in the Authorization to Operate as a facility-wide emissions cap in order to avoid other applicable requirements, i.e., Part 70 requirements. This cap is established at a level to not equal or exceed major source thresholds. Compliance with these emission limitations shall be determined on a monthly rolling basis. The estimate shall be annualized using a monthly average during the first 11 months following issuance of this Authorization. However, any facility with actual emissions of each regulated air pollutant less than 80% of the major source thresholds may make this determination annually.

APPLICABLE REQUIREMENTS AND MONITORING AND RECORDKEEPING REQUIREMENTS

Applicable requirements and monitoring and recordkeeping requirements for all eligible sources were identified and evaluated in development of the Nonmetallic Mineral Processing Facility General Permit. As a summary, and for informational purposes only, Table 5 lists whether or not a particular condition of the permit and any specific monitoring and recordkeeping requirement pertains to a particular emission unit proposed for this site.

PERFORMANCE TESTING

The processing equipment at a nonmetallic minerals processing facility which commences construction or modification after August 31, 1983, is subject to 40 CFR 60, Subpart OOO. Since all of the equipment at this facility will be constructed after the promulgation of this subpart, each is subject to performance testing as required by the subpart. Opacity standards are identified in 40 CFR 60.672 and the testing methods and requirements are described in 40 CFR 60.675. There are no capture systems, so the provisions of §672(a) do not apply. Emissions from belt conveyors are limited to 10% opacity by §672(b). Because there is no capture system, emissions from crushers are limited to 15% opacity by §672(c). Truck dumping is exempt from opacity limits per §672(d). Finally, wet screening and all subsequent operations of saturated materials up to the next crusher, grinding mill, or storage bin shall have no visible emissions (0% opacity) per §672(h).

TIER CLASSIFICATION AND PUBLIC REVIEW

The application associated with this Authorization under the GP is classified as **Tier I**, per OAC 252:2-15-40(c)(1), effective June 15, 2005. Since the Nonmetallic Mineral Processing Facility General Permit has previously undergone public review (notice published on September 30, 1999, in the *Tulsa World* and the *Daily Oklahoman*), no site-specific public review is required. The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant uses the land by lease.

FEE PAID

The Nonmetallic Mineral Processing Facility General Permit Construction Authorization fee is $400 and applicant submitted the required $400.

SUMMARY

The applicant has demonstrated the ability to meet all the requirements of the Nonmetallic Mineral Processing Facility General Permit issued on May 9, 2000. Ambient air quality standards are not threatened at the site. Issuance of the Authorization to Construct is recommended.

Table 5: SUMMARY OF MONITORING & RECORDKEEPING REQUIREMENTS

Emission Unit (EU) and (ID)	Applicable Condition	Description	Monitoring and Recordkeeping	Currently Subject?	Comments
Emissions Limitations	Part 2/I/A	Facility-wide Emissions Cap	Annual emissions record	Y	Applicable to all EUGs.
	Part 2/I/B	NSPS Opacity Limits	Per NSPS Subpart OOO	Y	Applicable to EUG1.
	Part 2/I/C	Hourly PM Limits	Not applicable at this time[1]	N	
	Part 2/I/D	Engine Conc. Limits	Not applicable at this time[1]	N	
Nonmetallic Mineral Processing Equipment (EUG1)	Part 2/II/A	Operating Records	Daily & cum. annual hours of operations and throughput, control technology used	Y	
	Part 2/II/B	NSPS OOO	Per NSPS Subpart OOO	Y	
	Part 2/II/C	Added Equipment	Written notification to the agency Records of performance tests	Y	
	Part 2/II/D	Existing Source	Submit copy of any report submitted to EPA per 40 CFR 60.7	Y	
Facility-wide	Part 2/V/A	Equipment Inventory	Maintain Equipment Inventory Notify AQD of equipment change	Y	
	Part 2/V/B	Recordkeeping	Emissions record	Y	
	Part 2/V/C	Open Burning	Per OAC 252:100-13	Y	No open burning at this time
	Part 2/V/D	Opacity Monitoring[1]	Quarterly Method 22 or Method 9 Maintain record per 40 CFR Part 60, Appendix A	N	Applicable to Non-NSPS equipment
	Part 2/V/E	Dust Complaints	Maintain a complaint log	Y	
	Part 2/V/F	Dust Suppression	Test Method Records	Y	
Appendix A	A/A - B	Control Devices	No recordkeeping required	N	
	A/C - D	Dust Suppression	Wet suppression system maintenance log	Y	
	A/E – F	Baghouses/Scrubbers	Not applicable at this time[1]	N	
	A/G	Catalytic Converters	Not applicable at this time[1]	N	
	A/H	Recordkeeping	Per Part 4 of the permit	Y	

[1] Monitoring and Recordkeeping are not currently required for these emission units. Could become applicable in future if emissions exceed 80% of the major source threshold (due to increasing equipment capacity, or adding engines, or adding storage tanks), or if adding Non-NSPS equipment.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Greenhill Concrete Products, Inc.-Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.-SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD	
MM/DD/YYYY	**MM/DD/YYYY**
05/01/2015	05/31/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non-contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

ENTERED JUN 2 6 2015

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Phil Rush, Operations Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	918-960-2194 AREA Code / NUMBER	06/09/2015 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I-19001620

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JUN 15 2015
WATER QUALITY DIVISION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Greenhill Concrete Products, Inc.-Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.-SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
06/01/2015	06/30/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non-contact Stormwater Runoff
External Outfall
No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	918-960-2194 AREA Code / NUMBER		07/13/2015 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I-19001620

ENTERED JUL 24 2015

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Arrow Concrete Co.
ADDRESS: 1601 E. Houston Ave.
Broken Arrow, OK 74012
FACILITY: ARROW CONCRETE COMPANY
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012

ATTN: Phil Rush

OK0045781	002-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
07/01/2015	07/31/2015

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormwate
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		08/19/2015
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

When discharging.□
I-720026020

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*

NAME: Greenhill Concrete Products, Inc.-Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.-SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067

ATTN: Phil G. Rush, President

OKG110066	001-A
PERMIT NUMBER	**DISCHARGE NUMBER**

MONITORING PERIOD	
MM/DD/YYYY	**MM/DD/YYYY**
07/01/2015	07/31/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non-contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		08/19/2015
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
09/01/2015	09/30/2015

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

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OCT 13 2015
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		10/07/2015
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED OCT 16 2015

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
09/01/2015	09/30/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
OCT 13 2015
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Phil Rush, Operations Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	918-960-2194 AREA Code / NUMBER	10/7/2015 MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED OCT 16 2015

EPA Form 3320- 1 (Rev.01/06) Previous editions may be used.

F3C1

Greenhill Concrete

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WATER QUALITY DIVISION

1-72002620

Wastewater Discharge Record

Year: 2015 **Location:** Broken Arrow (F06)

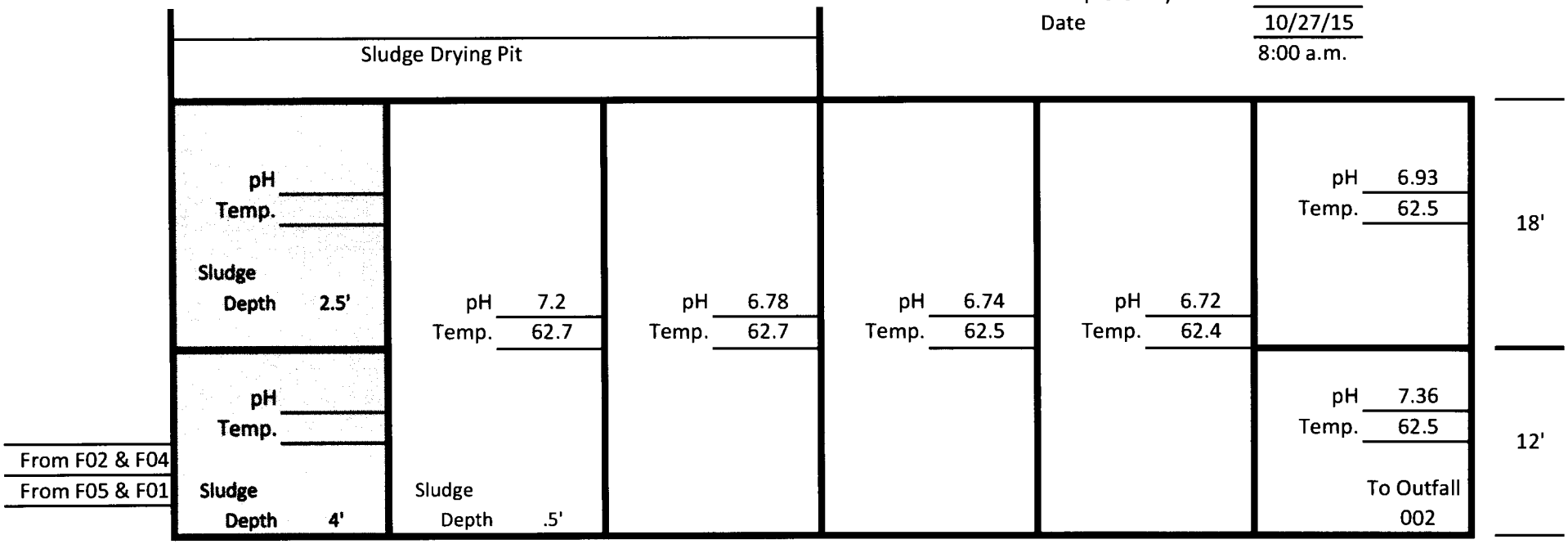
Date	Inches of Water	Gallons Discharged	ph at Discharge Point	Highest ph recorded	Lowest ph recorded	Comments
10/27/2015	Varied	57,519.0	Varied	7.36	6.72	Drained all but first 2
						cells due to high pH
						in those 2 cells
						Calibrated tester on
						10/26/15

NOTE: One inch of water discharged from F06 = 1,100 gallons

Completed by: PGR

Date 10/27/15

8:00 a.m.



						Length	18
						Width	10
					66	Depth	5.500
	Length	30	Length	30		c.f.	990
	Width	10	Width	10		gallons	7395.3
60	Depth	5.000	Depth	5.083333	61	Length	12
					66	Depth	5.500
	c.f.	1500	c.f.	1525		c.f.	660
	gal./c.f.	7.47	gal./c.f.	7.47		gallons	4930.2
No removal / pH		11205	11205	11391.75	11391.75		12325.5
						Total Discharge	57,519 gal.

RECEIVED
NOV 09 2015
WATER QUALITY DIVISION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
12/01/2015	12/31/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
JAN 0 8 2016
WATER QUALITY DIVISION

ENTERED JAN 1 2 2016

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		01/05/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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11/01/2015	11/30/2015

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External Outfall

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Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
11/01/2015	11/30/2015

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
JAN 08 2016
WATER QUALITY DIVISION

ENTERED JAN 12 2016

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
12/01/2015	12/31/2015

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
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RECEIVED
JAN 0 8 2016
WATER QUALITY DIVISION

ENTERED JAN 1 2 2016

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01/01/2016	01/31/2016

DMR Mailing ZIP CODE: 74012
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(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
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50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

WATER QUALITY DIVISION
FEB 19 2016
RECEIVED

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED FEB 2 5 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

RECEIVED
FEB 29 2016
WATER QUALITY DIVISION

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
01/01/2016	01/31/2016

DMR Mailing ZIP CODE: 74015
MINOR
(SUBMIT NO DMR)
Non- contact Stormwater Runoff
External Outfall
No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
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Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
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Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
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Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED FEB 2 9 2016

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID I-72002740 Permit No. OKG11T212 County Rogers SIC

Greenhill Concrete Products, Inc. 5411N 145th E Ave Owasso 74015
Name of Facility / Address / City / Zip

Sherwood Construction Co. P.O Box 10 Catoosa 74015
Name of Owner / Address / City / Zip

Mike Hofstetter Plant Manager 918-272-3999
Name of Contact / Position / Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01		
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02		
	616-7-1	Treatment system properly operated and maintained	03		
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04		
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05		
	** 2-6-501	Wastes from treatment structures properly disposed	06		
	** 2-6-501	Waste hauler and disposal site recorded	07		
	616-7-1	Impoundment dikes properly constructed	08		
	616-7-1	Impoundment freeboard is as permitted	09		
	616-7-1	Dikes or liners properly maintained	10		
	616-5-1	Facility and/or impoundment access restricted	11		
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12		
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: ____ (Contract laboratory / Facility) Samples analyzed by: ____ (Contract laboratory / Facility)	*13		
	606-11-2	Approved analytical procedures and equipment used	14		
	606-1-3(b)(3)(W)	QA/QC records maintained	15		
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16		
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17		
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18		
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19		
	606-11-5	**Flow measurement methods adequate**	*20		
	606-11-5	Correct sampling location	21		
	606-11-2	Correct sampling methods used	22		
	606-11-2	Sample holding times not exceeded	23		
	606-11-2	Calibration records for instruments and equipment maintained	24		
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25		
	606-5-1	No visible oil sheen (violation of OWQS)	26		
	606-5-1	No visible foam or solids (violation of OWQS)	27		

Good retention

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

1. Facility's SWP3 needs to be updated with 2015 ACGCER.
2. Employee training logs needs to be included on the SWP3
3. Diesel Spill around diesel tanks. Nozzle left outside of the containment.

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Joshua Lemmy Employee ID#
Environmental Specialist

Michael Hofstetter Plant Manager
Copy received by / Title

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
(31) Compliance Monitoring
32 : Complaint No. ____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
(36) Notice to Comply by: next inspection date
37 : Refer to WQD

Date: 3 / 31 / 2016

Total number of items marked: 0

Number of critical items marked: 0

TYPE CLASS
(74 : R) Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : D1 Discharging Lagoon (min)

DEQ FORM # 616-530B (Rev. 10/2005)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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OMB No. 2040- 0004

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OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
03/01/2016	03/31/2016

DMR Mailing ZIP CODE: 74015
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(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [x]

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Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
APR 18 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED APR 27 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
03/01/2016	03/31/2016

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [x]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
APR 18 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		04/13/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED APR 27 2016

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID 72002620 | Permit No. OK0045781 | County Tulsa | SIC

~~Sherwood C~~ Greenhill Concrete Products | 1601 E Houston Ave | Broken Arrow | 74012
Name of Facility | Address | City | Zip

Sherwood Construction Co. | P.O. Box 6 | Catoosa | 74015
Name of Owner | Address | City | Zip

Richard Dunavant | Plant mgr | 918-345-9360
Name of Contact | Position | Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01	
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02	
	616-7-1	Treatment system properly operated and maintained	03	
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04	
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05	
	** 2-6-501	Wastes from treatment structures properly disposed	06	
	** 2-6-501	Waste hauler and disposal site recorded	07	
	616-7-1	Impoundment dikes properly constructed	08	
	616-7-1	Impoundment freeboard is as permitted	09	
	616-7-1	Dikes or liners properly maintained	10	X
	616-5-1	Facility and/or impoundment access restricted	11	
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12	
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: _____ Contract laboratory _____ Facility Samples analyzed by: _____ Contract laboratory _____ Facility	*13	
	606-11-2	Approved analytical procedures and equipment used	14	
	606-1-3(b)(3)(W)	QA/QC records maintained	15	
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16	
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17	
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18	
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19	X
	606-11-5	**Flow measurement methods adequate**	*20	
	606-11-5	Correct sampling location	21	
	606-11-2	Correct sampling methods used	22	
	606-11-2	Sample holding times not exceeded	23	
	606-11-2	Calibration records for instruments and equipment maintained	24	
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25	
	606-5-1	No visible oil sheen (violation of OWQS)	26	
	606-5-1	No visible foam or solids (violation of OWQS)	27	

DESCRIPTIONS OF DEFICIENCIES

F01 - freeboard good
F02 - Deep root vegetation
F04 - freeboard good
F05 - Deep root vegetation drainage grate needs maintanence due to particle build up
F06 - freeboard good
→ need maintanence, debris picked up
*F04 & F06 reversed in permit
No lab records available at time of inspection

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

sign has wrong facility ID listed

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Axel Hamberg Lemmy Osherge
Environmental Specialist | Employee ID#

Copy received by | Title: Plant mgr.

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. _____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: 7/8/16 date
37 : Refer to WQD

Date: 6 / 3 / 16

Total number of items marked: 2

Number of critical items marked: Ø

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : D1 Discharging Lagoon (min)

DEQ FORM # 616-530B (Rev. 10/2005)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
05/01/2016	05/31/2016

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
JUN 1 0 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	918-960-2124		06/06/2016
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED JUN 1 4 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
05/01/2016	05/31/2016

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
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Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
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RECEIVED
JUN 1 0 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194		06/06/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED JUN 1 4 2016

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID 72002620 | Permit No. OK0045781 | County Tulsa | SIC

Greenhill Concrete Products — Name of Facility
1601 E Houston Ave — Address
Broken Arrow — City
74012 — Zip

Sherwood Construction Co. — Name of Owner
P.O. Box 10 — Address
Cateosa — City
74015 — Zip

Richard Duravant — Name of Contact
Plant Manager — Position
918-345-9760 — Telephone

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01	
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	606-11-5	Correct sampling location	21	
	606-11-2	Correct sampling methods used	22	
	606-11-2	Sample holding times not exceeded	23	
	606-11-2	Calibration records for instruments and equipment maintained	24	
	606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25	
	606-5-1	No visible oil sheen (violation of OWQS)	26	
	606-5-1	No visible foam or solids (violation of OWQS)	27	

DESCRIPTIONS OF DEFICIENCIES

Items from previous inspection have been addressed

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist _____ Employee ID# _____

Copy received by _____ Title Plant mgr

DEQ FORM # 616-530B (Rev. 10/2005)

FACILITY STATUS:
28 : Repeat Violation(s)
29 : Under current enforcement action
30 : No Violation Noted

PURPOSE OF VISIT
31 : Compliance Monitoring
32 : Complaint No. _____
33 : Follow-Up
34 : Emergency/Disaster

ACTION
35 : None
36 : Notice to Comply by: _____
37 : Refer to WQD date

Date: 7 / 27 / 16

Total number of items marked: 0

Number of critical items marked: 0

TYPE CLASS
74 : R Lagoon, Total Retention
74 : L Land Application
74 : D Discharging Lagoon (maj)
74 : D1 Discharging Lagoon (min)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
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18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

PERMIT NUMBER	DISCHARGE NUMBER
OK0045781	002- A

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
06/01/2016	06/30/2016

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	6.5 MINIMUM	*******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*******	*******	*******	*******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*******	*******	*******	*******		Monthly	ESTIMA

RECEIVED
JUL 15 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE	DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	Phil Rush	918-960-2194	07/12/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code / NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED JUL 28 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Caroosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
06/01/2016	06/30/2016

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*******	*******	*******	*******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
JUL 15 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Phil Rush, Operations Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	918-960-2194		07/12/2016
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED JUL 28 2016

Batch Plant has been removed and facility is now inactive.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
08/01/2015	08/31/2015

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	6.5 MINIMUM	*******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
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Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*******	*******	*******	*******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
AUG 0 8 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
Matt Ritchie, Vice President	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	918-671-0860		8/4/16
TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED AUG 1 0 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Sherwood Construction Co., LLC- Broken Arrov
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
08/01/2015	08/31/2015

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
AUG 0 8 2016
WATER QUALITY DIVISION

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE
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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED AUG 1 0 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
04/01/2016	04/30/2016

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
AUG 0 8 2016
WATER QUALITY DIVISION

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TYPED OR PRINTED			AREA Code NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
1- 19001620

ENTERED AUG 1 0 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
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ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
02/01/2016	02/29/2016

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

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WATER QUALITY DIVISION

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
02/01/2016	02/29/2016

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	6.5 MINIMUM	*******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*******	*******	*******	*******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*******	*******	*******	*******		Monthly	ESTIMA

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WATER QUALITY DIVISION

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED AUG 1 0 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

PERMIT NUMBER	DISCHARGE NUMBER
OK0045781	002- A

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
07/01/2016	07/31/2016

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	6.5 MINIMUM	*******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*******	*******	*******	*******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*******	*******	*******	*******		Monthly	ESTIMA

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WATER QUALITY DIVISION

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED AUG 1 0 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if different)*
NAME: Sherwood Construction Co., LLC- Broken Arrow
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

OK0045781	002- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
04/01/2016	04/30/2016

DMR Mailing ZIP CODE: 74012
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*******	*******	*******	*******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
AUG 0 8 2016
WATER QUALITY DIVISION

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED AUG 1 0 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Greenhill Concrete Products, Inc.- Sapulpa
ADDRESS: P.O. Box 10
Catoosa, OK 74015
FACILITY: GREENHILL CONCRETE PRODUCTS, INC.- SAPULPA
LOCATION: 7905 S REGENCY DR
SAPULPA, OK 74067
ATTN: Phil G. Rush, President

OKG110066	001- A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
08/01/2016	08/31/2016

DMR Mailing ZIP CODE: 74015
MINOR
(SUBR IN)
Non- contact Stormwater Runoff
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	******	******	******		******					
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	6.5 MINIMUM	******	9 MAXIMUM	SU		Monthly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	******	******	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	45 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	******	******	******	******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				******	******	******	******			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	******	******	******	******		Monthly	ESTIMA

RECEIVED
SEP 1 4 2016
WATER QUALITY DIVISION

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
I- 19001620

ENTERED SEP 2 1 2016

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040- 0004

PERMITTEE NAME/ADDRESS *(Include Facility Name/Location if Different)*
NAME: Sherwood Construction Co., LLC- Tulsa
ADDRESS: 1640 S 101st E Ave
Tulsa, OK 74128
FACILITY: SHERWOOD CONSTRUCTION CO., LLC- BROKEN ARROW
LOCATION: 1601 E HOUSTON ST
BROKEN ARROW, OK 74012
ATTN: Phil Rush

PERMIT NUMBER	DISCHARGE NUMBER
OK0045781	002- A

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
08/01/2016	08/31/2016

DMR Mailing ZIP CODE: 74128
MINOR
(SUBR IN)
Process wastewater associated with stormw
External Outfall

No Discharge [X]

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH	SAMPLE MEASUREMENT	*******	*******	*******		*******					
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00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	40 DAILY MX	mg/L		Monthly	GRAB
Oil and grease, hexane extr method	SAMPLE MEASUREMENT	*******	*******	*******	*******						
00552 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******	*******	*******	Req. Mon. MO AVG	15 DAILY MX	mg/L		Monthly	GRAB
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RECEIVED
SEP 1 4 2016
WATER QUALITY DIVISION

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TYPED OR PRINTED			AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
When discharging.
I- 72002620

ENTERED SEP 2 1 2016

606-11-2	Calibration records for instruments and equipment maintained	24	☐
606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25	☐
606-5-1	No visible oil sheen (violation of OWQS)	26	☐
606-5-1	No visible foam or solids (violation of OWQS)	27	☐

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT – STORM WATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Inspection ID Number: _____ Activity type (check only one) ☐ **Construction** (OKR10) ☒ **Industrial** (OKR05)

Complaint Number: _____ OPDES Authorization No. **OKR10/OKR05** 7614 County _____

Greenhill Concrete	1601 E. Houston Ave	Broken Arrow	74012
Site/Facility Name	Site/Facility Address	City	Zip
Sherwood Construction Co.	P.O. Box 10	Catoosa	74015
Owner Name	Address	City	Zip
Richard Dunavant	Plant Manager	918-345-9360	
Contact Name	Title	Phone Number	

The below listed references are cited in the General Permit for Construction Activities OKR10, and the General Permit for Storm Water discharges from Industrial Facilities OKR05.

SECTIONS	REFERENCES Const.	REFERENCES Ind.	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
PERMIT VERIFICATION	Part 1.4.1.C	Part 1.3.1	**Facility permitted: Authorization on file**	*01		
	Part 1.4.1	Part 1.3.1	**SWPPP developed**	*02		
	Part 4.3.2	Part 7.2	SWPPP posted at the construction or facility site or is locally available	03		
OPERATIONS	Part 4.5.7	Part 4.2.7	**BMP properly implemented in accordance with SWPPP**	*04		chem. barrels put into containment area
	Part 4.5.6.A	N/A	Silt barriers in place, effective and maintained	05		
	Part 4.5.6.A.3	N/A	Sediment basins (if required) adequate and maintained as required	06		
	Part 4.5.8	Part 4.2.10	Inspection of BMPs at required frequency and documented in SWPPP	07		
	Part 4.5.6.A.2	N/A	Vegetation established on completed areas	08		
	Part 4.5.6.C.2	Part 4.2.9	Offsite tracking of mud, sediment and/or materials prevented	09		
	Part 4.5.6.C	Part 4.2.9	Other control measures implemented	10		
	Part 3.1	Part 1.1.1	**Non-Allowable Discharges Prevented**	*11	X	Pump that was put in place addressing discharged water from previous inspection currently out of service should be put in place by the end of the week water discharging out SW outfall
	N/A	Part 5.1	Quarterly visual monitoring performed from representative outfalls; visual examination reports maintained onsite with the SWP3	12		
	N/A	Part 5.2	Numeric Effluent Limitation Monitoring performed (if required); NELM reports maintained onsite with SWP3	13		
	N/A	Part 6.3	Annual Comprehensive Site Compliance Evaluation Report completed and submitted for previous permit year	14		
TERMINATION REQUIREMENTS						
TERMINATION / INSPECTION REQUEST	Part 1.5.2.A	Sector D Sector E	**Final Stabilization Completed**	*15		
	Part 1.5.2.B	Part 1.4.2	**Operations have ceased**	*16		
	Part 1.5.3	N/A	**Facility Ready to Terminate**	17		
	N/A	Part 1.4.2	**Permitted discharges have ceased**	*18		

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist Employee ID# _____

Copy received by Title

NOTICE TO COMPLY BY: 9/21/16

FACILITY STATUS
- ☐ 19: Repeat Violation(s)
- ☐ 20: Under Current Enforcement
- ☐ 21: No Violation Noted

ACTION
- ☐ 30: None
- ☐ 31: Refer to WQD

PURPOSE OF VISIT
- ☐ 22: Routine Inspection
- ☐ 23: Complaint
- ☒ 24: Follow-up
- ☐ 25: Emergency/Disaster
- ☐ 26: Training/Technical Assistance
- ☐ 27: Termination
- ☐ 28: Inspection Request
- ☐ 29: Referral Inspection

Date: 9/7/16

Total number of items marked: 1

Number of critical items marked: 1

ITEM NO.	CRITICAL ITEMS
*01	**Facility permitted: Authorization on file** – A Permit must be obtained that authorizes the discharge of storm water and an NOI must be on file
*02	**SWPPP developed**– Each construction or industrial facility must have a pollution plan developed.
*04	**BMP properly implemented in accordance with SWP3** - Best management practices (sediment control measures, good housekeeping) must be implemented as stated in the SWP3.
*11	**Non-Allowable Discharges Prevented** – Facilities or activities are authorized for the discharges for which the general permit applies. Any discharges that are not compliant with the eligibility conditions of the general permit are not authorized by the general permit. Ineligible discharges must be permitted by an appropriate permit (individual or alternative) to be compliant.
*15	**Final Stabilization completed** – Site must be stabilized to within 70% of the original natural vegetative ground cover. If the original natural vegetative ground cover was 50% then the required vegetative stabilization required is 35% (.50 X .70 = .35); temporary erosion and sediment control measures have been removed or will be removed at an appropriate time to ensure final stabilization is maintained. This requirement is also for the termination of asphalt batch plants (Sector D) and concrete batch plants (Sector E) of the Industrial Storm Water Permit (OKR05).
*16	**Operations have ceased** - Facility is closed and no longer in operation or there is no further construction activity occurring.
*18	**Permitted discharges have ceased** – The facility may be in operation but the authorized activity is no longer in operation (e.g. have changed SIC or NAC code)
	NON-CRITICAL ITEMS
03	SWPPP posted at the construction or facility site or locally available
05	Silt barriers in place, effective and maintained – All barriers described in the SWP3 must maintained and effective in controlling sediment leaving the construction site.
06	Sediment basins (if required) adequate and maintained as required – Sediment basins must be adequate size (3600 cubic feet/acre) and maintained (cleaned out when storage capacity is reduced by 50%). Required if stated in SWP3 or site is greater than 10 acres without site constraints.
07	Inspection of BMPs at required frequency and documented – Owner/operators of construction sites are required to conduct inspections of the sediment control measures every 14 days, maintain records of the inspections and modify the SWPPP as needed. For industrial facilities, the frequency is determined by the SWPPP and is to be completed by qualified personnel. The SWPPP is to be updated within 14 days of the inspection. All results and corrective actions must be documented in the SWPPP.
08	Vegetation established on completed areas – As sections of a project are completed vegetative stabilization is initiated.
09	Offsite tracking of mud and sediment prevented – Offsite tracking of mud and sediment by construction vehicles to be prevented. Areas that have evidence of offsite tracking are to be cleaned.
10	Other control measures implemented – Other control measures as stated in the General Permit must be met to minimize solid material from entering waters of the state. No solid materials, including floatable debris may be discharged. Generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized.
12	The requirements and procedures for quarterly visual monitoring are applicable to all industrial facilities covered under the general storm water permit, regardless of the facility's sector or SIC code (except those that qualify for No Exposure). The requirements and procedures are found in part 5.1.1 of the general permit and the results must be documented and maintained onsite with the SWPPP.
13	NELM Reports submitted and maintained - Table 1-3 of Part 1.3 of the general permit identifies industrial storm water discharges subject to Numeric Effluent Limitation Monitoring (NELM). Industry specific numerical limitations and compliance monitoring requirements are described in Part 12 of the general permit. The requirements and procedures are found in Part 5.2 and the results must be documented and maintained onsite with the SWPPP, and submitted to the DEQ on a Discharge Monitoring Report (DMR).
14	An Annual Comprehensive Site Compliance Evaluation Report (ACSCER) must be completed by all industrial facilities covered by the general permit. The ACSCER must be filed during the period October 2 to October 1 each year and submitted to DEQ no later than December 1 and maintained with the SWPPP. The requirements for completing the ACSCER are found in Part 4.8 of the general permit.
17	Facility has met the final stabilization requirements under permit OKR10 and may submit a Notice of Termination form (605-003)

ADDITIONAL COMMENTS

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT – STORM WATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Inspection ID Number: _____ Activity type (check only one) ☐ **Construction** (OKR10) ☒ **Industrial** (OKR05)

Complaint Number: _____ OPDES Authorization No. **OKR10/OKR05** 26161 County Tulsa

Greenhill Concrete	1601 E. Houston Ave	Broken Arrow	74012
Site/Facility Name	Site/Facility Address	City	Zip
Sherwood Construction Co	P.O. Box 10	Catoosa	74015
Owner Name	Address	City	Zip
Richard Dumont	Plant Manager	918-345-9360	
Contact Name	Title	Phone Number	

The below listed references are cited in the General Permit for Construction Activities OKR10, and the General Permit for Storm Water discharges from Industrial Facilities OKR05.

SECTIONS	REFERENCES Const.	REFERENCES Ind.	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
PERMIT VERIFICATION	Part 1.4.1.C	Part 1.3.1	**Facility permitted: Authorization on file**	*01		
	Part 1.4.1	Part 1.3.1	**SWPPP developed**	*02		
	Part 4.3.2	Part 7.2	SWPPP posted at the construction or facility site or is locally available	03		
OPERATIONS	Part 4.5.7	Part 4.2.7	**BMP properly implemented in accordance with SWPPP**	*04		
	Part 4.5.6.A	N/A	Silt barriers in place, effective and maintained	05		
	Part 4.5.6.A.3	N/A	Sediment basins (if required) adequate and maintained as required	06		
	Part 4.5.8	Part 4.2.10	Inspection of BMPs at required frequency and documented in SWPPP	07		
	Part 4.5.6.A.2	N/A	Vegetation established on completed areas	08		Pump in place no water leaving from SW outfall all issues have been addressed
	Part 4.5.6.C.2	Part 4.2.9	Offsite tracking of mud, sediment and/or materials prevented	09		
	Part 4.5.6.C	Part 4.2.9	Other control measures implemented	10		
	Part 3.1	Part 1.1.1	**Non-Allowable Discharges Prevented**	*11		
	N/A	Part 5.1	Quarterly visual monitoring performed from representative outfalls; visual examination reports maintained onsite with the SWP3	12		
	N/A	Part 5.2	Numeric Effluent Limitation Monitoring performed (if required); NELM reports maintained onsite with SWP3	13		
	N/A	Part 6.3	Annual Comprehensive Site Compliance Evaluation Report completed and submitted for previous permit year	14		
TERMINATION REQUIREMENTS						
TERMINATION / INSPECTION REQUEST	Part 1.5.2.A	Sector D Sector E	**Final Stabilization Completed**	*15		
	Part 1.5.2.B	Part 1.4.2	**Operations have ceased**	*16		
	Part 1.5.3	N/A	**Facility Ready to Terminate**	17		
	N/A	Part 1.4.2	**Permitted discharges have ceased**	*18		

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist _____ Employee ID# _____

Copy received by _____ Title _____

NOTICE TO COMPLY BY: ___/___/___

FACILITY STATUS
- ☐ 19: Repeat Violation(s)
- ☐ 20: Under Current Enforcement
- ☐ 21: No Violation Noted

ACTION
- ☒ 30: None
- ☐ 31: Refer to WQD

PURPOSE OF VISIT
- ☐ 22: Routine Inspection
- ☐ 23: Complaint
- ☒ 24: Follow-up
- ☐ 25: Emergency/Disaster
- ☐ 26: Training/Technical Assistance
- ☐ 27: Termination
- ☐ 28: Inspection Request
- ☐ 29: Referral Inspection

Date: 9/29/16

Total number of items marked: 0

Number of critical items marked: 0

ITEM NO.	CRITICAL ITEMS
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*04	**BMP properly implemented in accordance with SWP3** - Best management practices (sediment control measures, good housekeeping) must be implemented as stated in the SWP3.
*11	**Non-Allowable Discharges Prevented** – Facilities or activities are authorized for the discharges for which the general permit applies. Any discharges that are not compliant with the eligibility conditions of the general permit are not authorized by the general permit. Ineligible discharges must be permitted by an appropriate permit (individual or alternative) to be compliant.
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*16	**Operations have ceased** - Facility is closed and no longer in operation or there is no further construction activity occurring.
*18	**Permitted discharges have ceased** – The facility may be in operation but the authorized activity is no longer in operation (e.g. have changed SIC or NAC code)
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10	Other control measures implemented – Other control measures as stated in the General Permit must be met to minimize solid material from entering waters of the state. No solid materials, including floatable debris may be discharged. Generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized.
12	The requirements and procedures for quarterly visual monitoring are applicable to all industrial facilities covered under the general storm water permit, regardless of the facility's sector or SIC code (except those that qualify for No Exposure). The requirements and procedures are found in part 5.1.1 of the general permit and the results must be documented and maintained onsite with the SWPPP.
13	NELM Reports submitted and maintained - Table 1-3 of Part 1.3 of the general permit identifies industrial storm water discharges subject to Numeric Effluent Limitation Monitoring (NELM). Industry specific numerical limitations and compliance monitoring requirements are described in Part 12 of the general permit. The requirements and procedures are found in Part 5.2 and the results must be documented and maintained onsite with the SWPPP, and submitted to the DEQ on a Discharge Monitoring Report (DMR).
14	An Annual Comprehensive Site Compliance Evaluation Report (ACSCER) must be completed by all industrial facilities covered by the general permit. The ACSCER must be filed during the period October 2 to October 1 each year and submitted to DEQ no later than December 1 and maintained with the SWPPP. The requirements for completing the ACSCER are found in Part 4.8 of the general permit.
17	Facility has met the final stabilization requirements under permit OKR10 and may submit a Notice of Termination form (605-003)

ADDITIONAL COMMENTS

4716 N. 193rd E. Avenue
Post Office Box 10
Catoosa, OK 74015-0010
Telephone: (918) 266-6861
FAX (918) 266-6482

[redacted]

HOWARD SHERWOOD, Chairman
JOHN CURTIS, President
ROD ABBOTT, V.P. Const.
ED VOSS, V.P. Const.
DAVID SHERWOOD, V.P. Equip.
PAT BURNS, Sec.-Treas.
CONNIE KASSON, Ass't Sec.
JERRY NOLL, C.F.O.
JOHN SHERWOOD, Corp. Counsel

SHERWOOD CONST. CO., INC.

Oklahoma Department of Environmental Quality
Tulsa Regional Office
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa Ok. 74105

5/1/07

RECEIVED
MAY 03 2007
By

Attention: Mr. Herb Neumann

Re: Nonmetallic Mineral Processing Facility General Permit
Sherwood Construction Company, Inc.
Greenhill Materials Co. LLC Quarry
Authorization #2005-012-O

Dear Mr. Neumann:

Pursuant to our conversation of 4/24/07, in addition to requirements contained in the referenced Authorization, this letter and accompanying attachments will serve as written notification of our intent to make operational changes at our Greenhill Materials Quarry.

The Additional Emission Units identified in the first diagram will be situated in our primary production area and will be a part of our daily operation. The Operational Change Units identified in the second diagram will be in the pit area. This is to be a temporary operation used on an intermittent basis.

Should you have any questions upon your review of the submitted information, please give me a call @ 274-6560 or we can meet at your convenience.

Respectfully Submitted,

Rob Simms
Sherwood Construction Co./Greenhill Materials

The following list contains *New Equipment* Greenhill Materials will install in June of 2007. Please note *Figure 1* for the Flow Chart of this equipment. The addition of this equipment will not impact facility annual throughput.

Additional Emission Units		Manufacture or Modify	Installation
ID#	Description	Date	Date
5X14	5"X14" 2 Deck Trio Screen	March '06	June '07
#2CR	Universal 130/150 Crusher-400hp(Replacement)	April '07	June '07
VSI	Trio Model 85 Crusher-2 250hp Motors	April '07	June '07
#5	36"X21' Belted Conveyer-1ft Drop	April '07	June '07
#6	36"X20' Belted Conveyer-1ft Drop	April '07	June '07
#7	36"X100' Belted Conveyer-2ft Drop	April '07	June '07
#8	48"X20' Belted Conveyer-2ft Drop	April '07	June '07
#9	30"X90' Radial Stacker-Drop Varies	April '07	June '07
#10	36"X110' Belted Conveyer-2ft Drop	April '07	June '07
#11	30"X100' Belted Conveyer-1ft Drop	March '07	June '07
#12	30"X110' Belted Conveyer-2ft Drop	March '07	June '07

The following list contains *Existing Equipment* Greenhill Materials will reconfigure in June of 2007. Please note *Figure 2* for the Flow Cart of this equipment. The reconfiguring of this equipment will not impact facility annual throughput.

Operational Changes		Manufacture or Modify	Installation
ID#	Description	Date	Date
Lip3042	Lippman 3042 Crusher(Relocated)	April '07	May '07
#1	36"X30' Belted Conveyer-2ft Drop	April '07	May '07
#2	48"X60' Belted Conveyer-1ft Drop	April '07	May '07
LB2D	4'X12' Link Belt 2 Deck Screen	April '07	May '07
#3	42"X20' Belted Conveyer-1ft Drop	April '07	May '07
#4	30"X10' Belted Side Conveyer-2ft Drop	April '07	May '07
#5	30X75' Belted Conveye-2ft Dropr	April '07	May '07
#6	36"X40' Belted Conveyer-1ft Drop	April '07	May '07
#7	30"X60' Belted Radial Stacker-Drop Varies	April '07	May '07
Gen	1998 Cat XQ 225 Generater	April '07	May '07

Figure 1

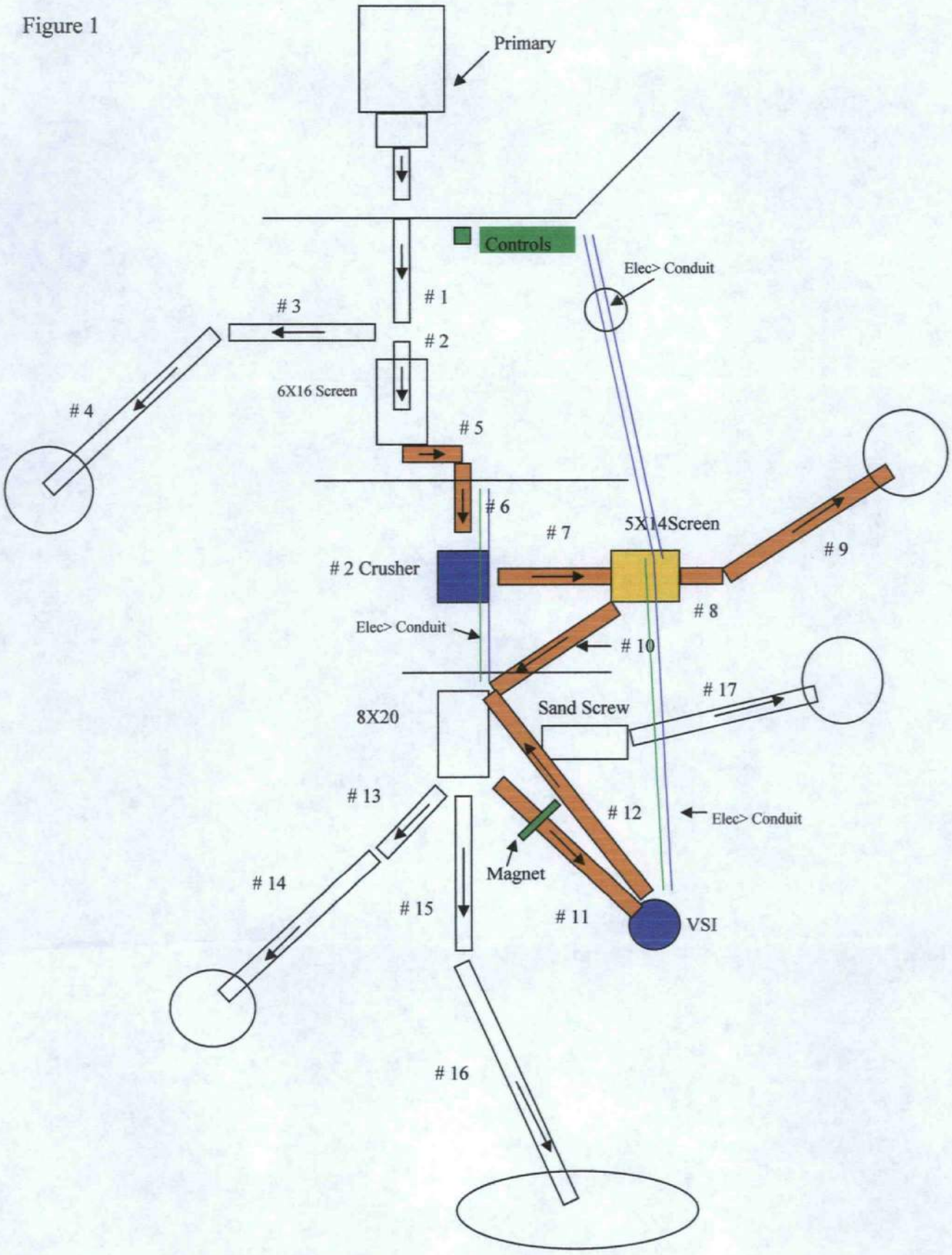
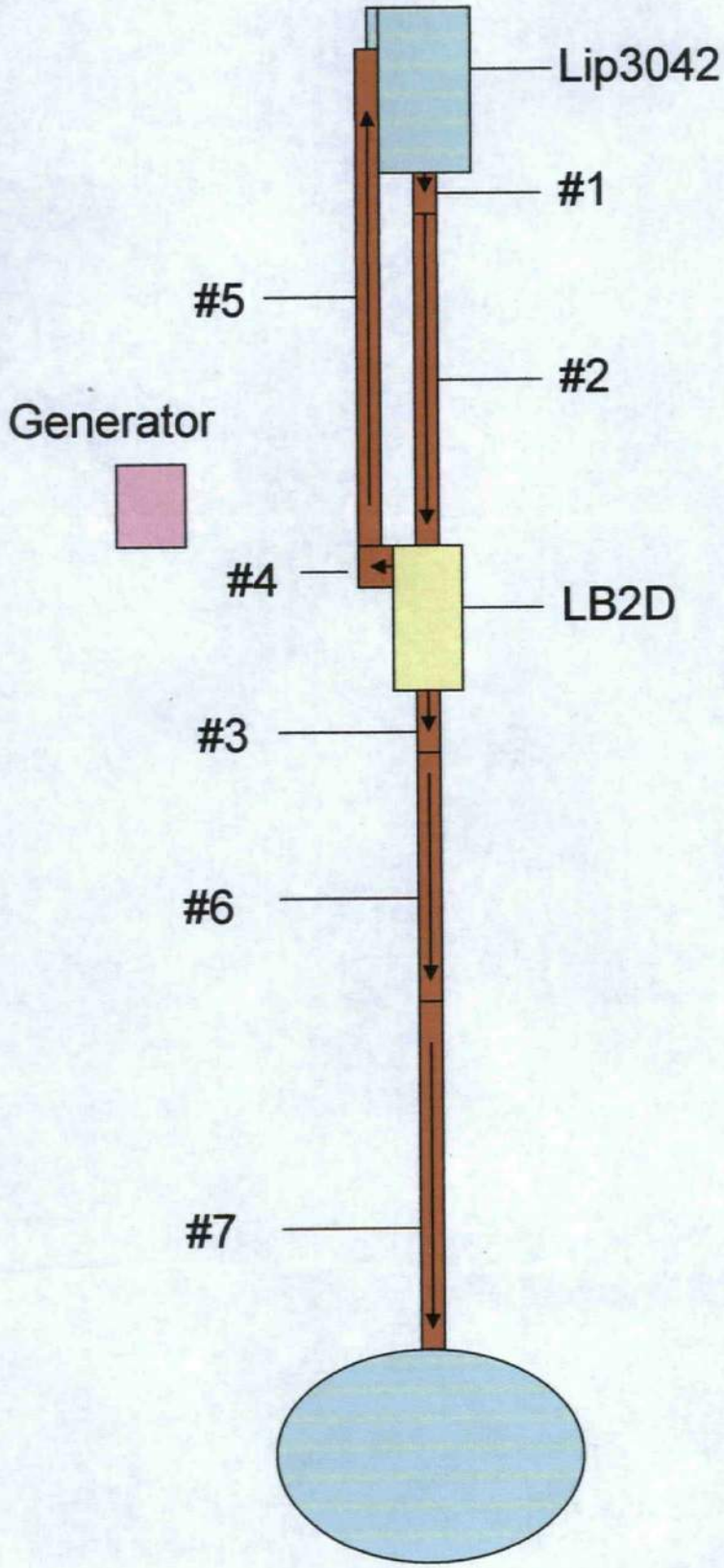

Primary
Controls
Elec> Conduit
1
3
2
6X16 Screen
4
5
6
7
5X14Screen
9
2 Crusher
8
Elec> Conduit
10
17
8X20
Sand Screw
13
12
Elec> Conduit
Magnet
14
15
11
VSI
16

Figure 2



See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OK0045781 OKR052614

Section II. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 740125

Section III. Facility Location

Name: Greenhill Concrete Products, Inc. Phone: 918-739-4812

Address: 1601 E. Houston Street

City: Broken Arrow County: Tulsa Zip Code: 74012

Latitude: 36.04419 Longitude: 95.76987

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/12/15

Signature: Title: Materials Manager

Confirmed w/ Matt Ritchie

Reviewed by SP 1-20-15

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 01/01/2014 - 12/31/2014.

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
11-7-2014	Ditch seep	Y	11-21-2014
7-22-2014	Housekeeping - trash, etc.	Y	9-30-2014
2-17-2014	Plugged storm drain	Y	3-15-2014

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes ____ No X

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes X No____ All BMPs were being implemented ____

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ____ No No ____ No deficiencies noted in any inspection ____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ____ No X All BMPs were effective ____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No X All BMPs were being effective ____

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No____ Permit applied for ____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred__X___

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes _____ No_____ Number of Visual Monitoring __3____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
X5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6) N/A (No problems identified). per matt Ritchie

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__X__

RECEIVED

See Page 4 for Instructions

FEB 27 2014

DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

ECLS

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051574/OKG11T212

Section II. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: 5411 N. 145th East Avenue

City: Owasso County: Rogers Zip Code: 74055

Latitude: 36.232 deg N Longitude: 95.810 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 2/24/14

Signature: Title: Materials Manager

ENTERED 3/5/14

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 1/1/2013 - 12/31/2013.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
1/10/2013	Seeping oil drum - no offsite discharge	Y	1/10/2013
8/23/2013	Berm maintenance around form oil tote	Y	8/26/2013

✓ What must you do to correct the deficiencies that remain uncorrected?
Maintain earthen berms around form oil tote on south side of facility.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes _____ No X

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes X No_____ All BMPs were being implemented _____

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes X No_____ No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No X All BMPs were effective _____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes X No_____ All BMPs were being effective _____ Drum storage area on west side of former shop has been eliminated.

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes X No_____ Earthen containment berms for Form Oil tote needs to be maintained.

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No__X__ No spills or leaks occurred_____

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes __X__ No_____ No spills or leaks occurred_____

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes __X__ No_____ Number of Visual Monitoring __4__

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
X5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
X6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__X__

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See Page 4 for Instructions

DEQ FORM 605-006

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR052301

Section II. Facility Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Materials Company, Inc. Phone: 918-266-6861

Address: 14701 E. Highway 266

City: Owasso County: Rogers Zip Code: 74055

Latitude: 36.234 deg N Longitude: 95.802 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/24/14

Signature: Title: Materials Manager

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 1/1/2013 to 12/31/2013.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
6/26/2013	Housekeeping (trash, refuse)	Y	6/26/2013
10/14/2013	Incidental trash, drainageway	Y	10/14/2013
	erosion/siltation		
1/16/2014	Clean up former drum storage area	N	

✓ What must you do to correct the deficiencies that remain uncorrected?
Former drum storage area will be cleaned up (drums, trash) and earthen berms regraded to grade.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes Y No

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes _____ No_____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No X No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No_____ All BMPs were effective X

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No_____ All BMPs were being effective X

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred__X___

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes _X__ No_____ Number of Visual Monitoring __4____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No_X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_X__

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No_X__

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR052301

Section II. Facility Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Materials Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Latitude: 36.234 deg N Longitude: 95.802 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/18/13

Signature: Title: Materials Manager

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JAN 28 2013
ECLS

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 1/1/2012 to 12/31/2012.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
3/20/2012	Housekeeping (trash, refuse)	Y	3/20/2012
6/28/2012	Trash (parts packaging	Y	6/28/2012

✓ What must you do to correct the deficiencies that remain uncorrected?
All deficiencies were corrected.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes Y No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes _____ No_____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No X No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No_____ All BMPs were effective X

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No_____ All BMPs were being effective X

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred__X___

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes __X___ No_____ Number of Visual Monitoring __2___

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
(5) N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6) N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No__X__

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__X__

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

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All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR052301

Section II. Facility Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Materials Company, Inc. Phone: 918-266-6861

Address: 14701 E. Highway 266

City: Owasso County: Rogers Zip Code: 74055

Latitude: 36.234 deg N Longitude: 95.802 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/7/15

Signature: Title: Materials Manager

Confirmed w/ Matt Ritchie 1-15-15

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JAN 13 2015
ECLS Reviewed 1-15-15 By OP

AH

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 1/1/2014 - 12/31/2014.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
1-7-2014	Erosion control - traffic way and	Y	1-7-2014
	runoff corridor		
4-21-2014	Drainage way maintenance	Y	4-21-2014

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes Y No____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes _____ No_____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No X No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No_____ All BMPs were effective X

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No_____ All BMPs were being effective X

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes_____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred__X___

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes __X___ No_____ Number of Visual Monitoring __4____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__X__

See Page 4 for Instructions

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MAR 07 2014
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DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR052614

Section II. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 740125

Section III. Facility Location

Name: Greenhill Concrete Products, Inc. Phone: 918-739-4812

Address: 1601 E. Houston Street

City: Broken Arrow County: Tulsa Zip Code: 74012

Latitude: 36.04419 Longitude: 95.76987

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 2/24/14

Signature: Title: Materials Manager

ENTERED 3/24/14

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 01/01/2013 - 12/31/2013.

✓ How many routine facility inspections did you perform during the reporting period? 2

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
2/1/2013	Sediment in Pond F01	Y	2/1/2013
2/17/2014	Housekeeping Issues	N	

✓ What must you do to correct the deficiencies that remain uncorrected?

Clean up litter along east property boundary, around Maintenance Shop and in drainageway upstream from outfall. Properly stow oil drums and clean storm drain inlet on north side of Maintenance Shop. Greenhill recently acquired this facility from Arrow Concrete.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes _____ No X

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes X No_____ All BMPs were being implemented _____

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No No No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No X All BMPs were effective _____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No X All BMPs were being effective _____

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred__X___

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes _____ No_____ Number of Visual Monitoring __0____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No_____ NA

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
X2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source. Will correct items noted above in the 2/17/2014 inspection.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__X__ Greenhill will implement quarterly visual monitoring in 2014.

See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

RECEIVED JUL 13 2015 ECLS

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: ~~OK0045761~~ OKR052614

Section II. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 740125

Section III. Facility Location

Name: Greenhill Concrete Products, Inc. Phone: 918-739-4812

Address: 1601 E. Houston Street

City: Broken Arrow County: Tulsa Zip Code: 74012

Latitude: 36.04419 Longitude: 95.76987

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/12/15 7/9/15

Signature: Title: Materials Manager

SP 7-29-15

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 01/01/2014 - 12/31/2014.

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
11-7-2014	Ditch seep	Y	11-21-2014
7-22-2014	Housekeeping - trash, etc.	Y	9-30-2014
2-17-2014	Plugged storm drain	Y	3-15-2014

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes _____ No X

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes X No_____ All BMPs were being implemented _____

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No No All deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No X All BMPs were effective _____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No X All BMPs were being effective _____

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__X___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred__X___

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes _____ No_____ Number of Visual Monitoring __3____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__X__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
X5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__X__

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

July 1, 2015

RECEIVED
JUL 08 2015
BY:

Matt Ritchie
Greenhill Concrete Products Inc
PO Box 10
Catoosa, OK 74015

RE: Annual Comprehensive Site Compliance Evaluation Report

OKR052614
Greenhill Concrete - Broken Arrow, OK Concrete Batch Plant
1601 E. HOUSTON AVE.
Broken Arrow, OK 74012

Dear Sir/Madam:

This is to provide you with notice of an apparent violation of the OKR05 General Permit for Storm Water Discharges from Industrial Facilities.

According to our records, we have not received your Annual Comprehensive Site Compliance Evaluation Report (ACSCER) for the 2014 monitoring year. All active Industrial Facilities must submit their ACSCER report by March 1st every year.

Enclosed is an ACSCER (Form 605-006) to be completed and submitted to our office by July 31, 2015. This report may be faxed to (405) 702-6226, emailed to ecls-stormwaterpermitting@deq.ok.gov or mailed to the address listed on the ACSCER form. If the ACSCER is not submitted in a timely manner, enforcement action will be taken.

If you have any questions or you believe the violation has been cited in error, please contact Janie Bender at (405) 702-6170. Thank you for your assistance.

Sincerely,

Loree Boyanton

See Attached.

Loree Boyanton
Programs Manager
Storm Water Unit
Environmental Complaints and Local Services

Enclosure

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

April 18, 2012

MATT RITCHIE
SHERWOOD CONSTRUCTION COMPANY INC
PO BOX 10
CATOOSA OK 74015

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number: OKR052301

Dear MATT RITCHIE

The new Notice of Intent (NOI) for the facility listed below was received on February 2, 2012 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in Rogers County.

Facility:
GREENHILL MATERIALS COMPANY INC
14701 E 46TH ST N
OWASSO, OK 74055

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2012 will be invoiced for the full permit year (July 1, 2012 - June 30, 2013).

If you have any questions regarding this permit or the Storm Water Program, please call Matt Pace of the Environmental Complaints and Local Services Division at (405) 702-6209.

Sincerely,

Matt Pace
Environmental Program Manager
Environmental Complaints and Local Services

Enclosures
c: Claremore DEQ Office

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. **OKR052301**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction Company Inc

PO BOX 10

Catoosa, OK 74015

Is authorized to discharge storm water from an industrial site located in **Rogers** County at
Greenhill Materials Company Inc

14701 E 46TH ST N

Owasso, OK 74055

The receiving body of water is an unnamed tributary to the Bird Creek

The OPDES requires permittees to have a Storm Water Pollution Plan (SWP3) which includes a description of appropriate control measures. These are applicable to your industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.
The Authorization shall become effective **April 12, 2012** and will expire at midnight September 4, 2016.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on September 5, 2011, shall apply to the recipient of this authorization.

Richard McDaniel

Richard McDaniel, Environmental Programs Manager
Environmental Complaints and Local Services Division

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. **OKR052614**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Greenhill Concrete Products Inc

PO Box 10

Catoosa, OK 74015

Is authorized to discharge storm water from an industrial site located in **Tulsa** County at

Greenhill Concrete - Broken Arrow, OK Concrete Batch Plant

1601 E. HOUSTON AVE.

Broken Arrow, OK 74012

The receiving body of water is an unnamed tributary to Broken Arrow Creek

The OPDES requires permittees to have a Storm Water Pollution Plan (SWP3) which includes a description of appropriate control measures. These are applicable to your industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.
The Authorization shall become effective **November 15, 2013** and will expire at midnight September 4, 2016.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on September 5, 2011, shall apply to the recipient of this authorization.

Richard McDaniel

Richard McDaniel, Environmental Programs Manager
Environmental Complaints and Local Services Division

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

March 7, 2003

John R. Curtis
Sherwood Construction
PO Box 10
Catoosa, OK 74015-

Re: Authorization for Storm Water Discharge from Construction or Land Disturbing Activity
Authorization Number OKR100613

Dear John R. Curtis:

The new Notice of Intent (NOI) for the facility listed below was received on February 1, 2029 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with construction or land disturbing activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR10 for the following site located in Rogers County.

Facility: Greenhill Materials
17401 E 46th Street N
Owasso

All applicable fees associated with this initial authorization have been paid for the current permit period. The annual fee for a General Permit is $150.00. The annual fee covers the permit period July 1 – June 30.

If you have any questions regarding this permit or the Storm Water Program, please call Robert Huber of the Environmental Complaints and Local Services Division at (405) 702-6222.

Sincerely,

Robert Huber
Programs Coordinator
Environmental Complaints and Local Services

Enclosure

c: Clyde Mason, DEQ Regional Manager
Claremore DEQ Office

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Construction General Permit

AUTHORIZATION NO. OKR100613

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O. S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction
PO Box 10
Catoosa, OK 74015-

Is authorized to discharge storm water from a construction site located in Rogers County at:

Greenhill Materials
17401 E 46th Street N
Owasso, OK

The receiving body of water is Bird Creek.
This Facility Discharges into a 303(d) listed Stream
The OPDES requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your construction site, which is subject to inspection. Proof of this authorization must be available at the construction site.

The Authorization shall become effective March 07, 2003 and will expire at midnight on September 12, 2007.

All terms and conditions of the modified OPDES Storm Water Construction General Permit OKR10, as published on September 13, 2002, shall apply to the recipient of this authorization.

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mark Derichsweiler, P. E., Engineering Manager
Watershed Planning and Toxics Control Section,
Water Quality Division

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

March 25, 2008

JOHN R CURTIS
SHERWOOD CONST CO
PO BOX 10
CATOOSA, OK 74015-

Re: Authorization for Storm Water Discharge from Construction or Land Disturbing Activity
Authorization Number OKR108311

Dear JOHN R CURTIS:

The new Notice of Intent (NOI) for the facility listed below was received on December 28, 2007 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with construction or land disturbing activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR10 for the following site located in ROGERS County.

Facility: GREENHILL MATERIALS
14701 E 46TH ST N
OWASSO OKLAHOMA

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2008 will be invoiced for the full permit year (July 1, 2008 – June 30, 2009).

If you have any questions regarding this permit or the Storm Water Program, please call Amber McIntyre of the Environmental Complaints and Local Services Division at (405) 702-6167.

Sincerely,

Amber McIntyre
Environmental Program Specialist
Environmental Complaints and Local Services

Enclosure

c: CLAREMORE DEQ OFFICE

printed on recycled paper with soy ink

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Construction General Permit

AUTHORIZATION NO. OKR108311

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O. S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

SHERWOOD CONST CO
PO BOX 10
CATOOSA, OK 74015-

Is authorized to discharge storm water from a construction site located in ROGERS County at:

GREENHILL MATERIALS
14701 E 46TH ST N
OWASSO OKLAHOMA

The receiving body of water is BIRD CREEK
THIS FACILITY DISCHARGES INTO A 303(D) LISTED STREAM.

The OPDES requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your construction site, which is subject to inspection. Proof of this authorization must be available at the construction site.

The Authorization shall become effective APR 18 2008 and will expire at midnight on September 12, 2012.

All terms and conditions of the modified OPDES Storm Water Construction General Permit OKR10, as published on September 13, 2007, shall apply to the recipient of this authorization.

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mark Derichsweiler, P. E., Engineering Manager
Watershed Planning and Toxics Control Section,
Water Quality Division

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

October 26, 2009

IMAGED
NOV 9 2009
DEQ CENTRAL RECORDS

LARRY C CREEKMORE
CHEROKEE BUILDERS INC
2005 N 167TH E AVE
TULSA, OK 74116

Re: Authorization for Storm Water Discharge from Construction or Land Disturbing Activity
Authorization Number OKR1010683

Dear LARRY C CREEKMORE:

The new Notice of Intent (NOI) for the facility listed below was received or 10/19/2009 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with construction or land disturbing activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR10 for the following site located in TULSA County.

Facility GREENHILL DISTRIBUTION CENTER II

4243 N GARNETT RD

TULSA, OKLAHOMA

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2010 will be invoiced for the full permit year (July 1, 2010 - June 30, 2011).

If you have any questions regarding this permit or the Storm Water Program, please call Matt Johnson of the Environmental Complaints and Local Services Division at (405) 702-6182 .

Sincerely,

Matt Johnson

Matt Johnson
Environmental Program Specialist
Environmental Complaints and Local Services

Enclosure

c: REGIONAL OFFICE AT TULSA
ROY W FOSTER, NPDES COORDINATOR, CITY OF TULSA

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Construction General Permit OKR10

AUTHORIZATION NO. **OKR1010683**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

CHEROKEE BUILDERS INC
2005 N 167TH E AVE
TULSA, OK 74116

Is authorized to discharge storm water from a construction site located in TULSA County at:

GREENHILL DISTRIBUTION CENTER II
4243 N GARNETT RD
TULSA, OKLAHOMA

The receiving body of water is **MINGO CREEK**

The OPDES requires permittees to have a Storm Water Pollution Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your construction site, which is subject to inspection. Proof of this authorization must be available at the construction site.

The Authorization shall become effective NOV 06 2009 and will expire at midnight September 12, 2012.

All terms and conditions of the modified OPDES Storm Water Construction General Permit OKR10, as published on September 13, 2007, shall apply to the recipient of this authorization.

Mark Derichsweiler, P.E., Engineering Manager
Watershed Planning and Storm Water Permitting
Water Quality Division

2945 00

MRS

ADDENDUM B –NOTICE OF INTENT

See Reverse Side for Instructions

DEQ FORM 605-002A Sep 3, 2009

Oklahoma Department of Environmental Quality
Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One Acres or More Acres
Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

NEW APPLICATION **MODIFICATION OF CURRENT PERMIT Enter Authorization Number: OKR10** _____

I. Facility Owner/Operator Information **If you are a Co-permittee, check this box**

Name: Cherokee Builders, Inc. (Larry C. Creekmore) Phone: (918) 234-2550

Address: 2005 N. 167th E. Ave. Status of Owner/Operator: P

City: Tulsa State: OK Zip Code: 74116 E-mail Address: lcreekmore@cherokeebuilders.com

II. Site Information

Name of the project: Greenhill Distribution Center II Address: 4243 North Garnett Road

City: Tulsa County: Tulsa ZIP Code: 74116

Telephone No. (248) 936-6836 **Location:** Latitude: N36° 12.925' Longitude: W95°51.013'

Has a Storm Water Pollution Prevention Plan (SWP3) been developed? X Yes No

Address of location of SWP3 for viewing: X Address in I. Above. Address in II. Above. Other, please specify below.

Address: _____ Phone: (_____) _____

City: _____ Zip Code: _____

Name of Receiving Water Body: Mingo Creek

Is the Receiving Water Body on the DEQ 303(d) list? ? Yes X No Is this facility/site on Indian Country land? Yes X No (See Instructions)

Is there an approved TMDL or watershed plan applicable to this site? Yes X No

Is this site a part of the common plan of development or sale? X Yes No Estimated area to be disturbed (to nearest acre): 8

10 / 19 / 2009 (Month / Day / Year) Construction Start Date

4 / 15 / 2010 (Month / Day / Year) Estimated Completion Date

Is the Storm Water Pollution Prevention Plan in compliance with all Applicable local sediment and erosion plans? (Yes) No None

ENDANGERED SPECIES

Based on the instructions provided in Part 11 and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds?

Yes (X No)

If the answer is yes, please refer to Part 11.2 Step 2.

All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part 1.3.2.E.2 of the permit have been complied with. (check one or more boxes):

(a.) b. c. d. e.

SCANNED

OCT 22 2009

CHEROKEE BUILDERS

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part 1.3.

Name (Please Print): Larry C. Creekmore Date: 10·16·09

Signature: Larry C. Creekmore Title Executive Vice President

For DEQ use only: Assigned Authorization Number: OKR10 10683

DEQ
Oklahoma Department of Environmental Quality
4243 NORTH GARNETT ROAD
TULSA
E 29th Pl
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656
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E 30th St
E 30th Pl
E 31st St
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S 101st East Ave
S 103rd East Ave
S 97th E Ave
S Garnett Rd
S 121st East Ave
S 129th East Ave
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State Farm Blvd
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Copyright © 2001-2009 Oklahoma Department of Environmental Quality.

MRJ 10/22

RECEIVED
OCT 19 2009
DEQ ECLS

ADDENDUM B –NOTICE OF INTENT

See Reverse Side for Instructions

DEQ FORM 605-002A Sep 3, 2009	OKLAHOMA	**Oklahoma Department of Environmental Quality** **Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One Acres or More Acres** **Under the OPDES General Permit OKR10**

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA, BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

NEW APPLICATION **MODIFICATION OF CURRENT PERMIT Enter Authorization Number: OKR10**_____

I. Facility Owner/Operator Information **If you are a Co-permittee, check this box**

Name: Cherokee Builders, Inc. (Larry C. Creekmore) Phone: (918) 234-2550

Address: 2005 N. 167th E. Ave. Status of Owner/Operator: P

City: Tulsa State: OK Zip Code: 74116 E-mail Address: lcreekmore@cherokeebuilders.com

II. Site Information

Name of the project: Greenhill Distribution Center II Address: 4243 North Garnett Road

City: Tulsa County: Tulsa ZIP Code: 74116

Telephone No. (248) 936-6836 **Location:** Latitude: N36° 12.925' Longitude: W95°51.013'

Has a Storm Water Pollution Prevention Plan (SWPJ) been developed? X Yes No

Address of location of SWPJ for viewing: X Address in I. Above. Address in II. Above. Other, please specify below.

Address: _____ Phone: (____)_____

City: _____ Zip Code: _____

Name of Receiving Water Body: Mingo Creek

Is the Receiving Water Body on the DEQ 303(d) list? ? Yes X No Is this facility/site on Indian Country land? Yes X No (See Instructions)

Is there an approved TMDL or watershed plan applicable to this site? Yes X No

Is this site a part of the common plan of development or sale? X Yes No Estimated area to be disturbed (to nearest acre): 8

10 / 19 / 2009 — Month / Day / Year — Construction Start Date

4 / 15 / 2010 — Month / Day / Year — Estimated Completion Date

Is the Storm Water Pollution Prevention Plan in compliance with all Applicable local sediment and erosion plans? Yes No N/A

ENDANGERED SPECIES

Based on the instructions provided in Part II and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds?

Yes X No

If the answer is yes, please refer to Part II.2 Step 2.

All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part 1.3.2.E.2 of the permit have been complied with. (check one or more boxes):

a. X b. c. d. e.

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part 1.3.

Name (Please Print): Larry C. Creekmore Date: 10-16-09

Signature: Larry C. Creekmore Title: Executive Vice President

For DEQ use only: Assigned Authorization Number: OKR10 10683

Johnson, Matthew, R

From: Johnson, Matthew, R
Sent: Thursday, October 22, 2009 10:17 AM
To: 'lcreekmore@cherokeebuilders.com'
Subject: Greenhill Distribution Center II - NOI
Attachments: Larry Creekmore - Greenhill Distribution Center II - NOI.pdf

RE: Storm Water Pollution Prevention Plan
Greenhill Distribution Center II

Dear Mr. Larry Creekmore,

Enclosed is the Notice of Intent (NOI) for the above referenced project received by our office on October 19, 2009. After our review, we have determined that the NOI is incomplete. The area circled on the NOI needs to be completed and initialed to acknowledge the approval. Please review the form for corrections, initial any changes made, and fax it back to me at 405.702.6226, or by mail to the address listed below.

Please note, discharges that occur without an authorization are not in compliance with the general permit for storm water discharges from construction activities, and are in violation of 27A O.S. § 2-6-201.

Failure to respond **within 7 days, October 29, 2009,** will result in possible enforcement. Information not received by the indicated deadlines or non-responsiveness to our request may result in your application being referred for enforcement.

If you have any questions, please feel free to contact me.

Sincerely,

Matthew R. Johnson
Environmental Programs Specialist
Environmental Complaints & Local Services
Oklahoma Department of Environmental Quality
707 North Robinson, P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-6182 (office)
(405) 702-6226 (fax)

Please print responsibly

12-00-09 DEPT. OF ENVIRONMENTAL 4063 CHECK DATE: 12-16-09 CHECK NO: 99263

DATE	INVOICE	DESCRIPTION	GROSS	RETENTN	DISCOUNT	NET
103009	55096276	STORMWATER PERMIT	246.11			246.11

OKR10 10683

503178

TOTALS:	246.11		246.11

IMAGED
JAN 7 2010
DEQ CENTRAL RECORDS

RECEIVED
ADMINISTRATIVE SERVICES
2009 DEC 29 P 2:46

Superior. Always.

RECEIVED
MAR 06 2014
ECLS

February 28, 2014

DEQ
Environmental Complaints and Local Services
Storm Water Unit
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Notice of Termination, General Storm Water Permit OKR51574, Greenhill Concrete Products, Inc., 5411 N. 145th E. Avenue, Owasso, OK 74055.

Dear Sir or Madam:

We are submitting the attached Notice of Termination for the above permit on behalf or our client, Greenhill Concrete Products, Inc. Greenhill recently converted its total retention discharge permit to a concrete batch plant general discharge permit (OKG11T212). Since the concrete batch plant general permit includes storm water, Greenhill no longer needs its general storm water discharge permit.

Please contact me (randy.beeson@secompliance.com) or Mr. Matt Ritchie of Greenhill Concrete (mattr@greenhillconcrete.com) if you or your staff has any questions.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

cc: Greenhill Concrete Products, Inc.

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com| www.superiorenviro.com

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

July 1, 2015

Matt Ritchie
Greenhill Concrete Products Inc
PO Box 10
Catoosa, OK 74015

RE: Annual Comprehensive Site Compliance Evaluation Report

OKR052614
Greenhill Concrete - Broken Arrow, OK Concrete Batch Plant
1601 E. HOUSTON AVE.
Broken Arrow, OK 74012

Dear Sir/Madam:

This is to provide you with notice of an apparent violation of the OKR05 General Permit for Storm Water Discharges from Industrial Facilities.

According to our records, we have not received your Annual Comprehensive Site Compliance Evaluation Report (ACSCER) for the 2014 monitoring year. All active Industrial Facilities must submit their ACSCER report by March 1st every year.

Enclosed is an ACSCER (Form 605-006) to be completed and submitted to our office by July 31, 2015. This report may be faxed to (405) 702-6226, emailed to ecls-stormwaterpermitting@deq.ok.gov or mailed to the address listed on the ACSCER form. If the ACSCER is not submitted in a timely manner, enforcement action will be taken.

If you have any questions or you believe the violation has been cited in error, please contact Janie Bender at (405) 702-6170. Thank you for your assistance.

Sincerely,

Loree Boyanton
Programs Manager
Storm Water Unit
Environmental Complaints and Local Services

Enclosure

INSPECTION REQUEST

DEQ FORM 606-009 Sept., 13, 2012	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY INSPECTION REQUEST FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER AN OPDES GENERAL PERMIT

All Requested Information Must Be Provided on This Form. See Instructions on the Back of Form.

I. Permit Information: OPDES

Storm Water General Permit Authorization Number: OKR10 23383

II. Facility/Site Operator Information:

Name: Timberrock Properties Phone: 9186330377

Address: @ 519 W. 12th

City: Jenks State: OK Zip Code: 74037

III. Facility/Site Location:

Name: Timberrock Properties - Elwood Corner

Address: 985 E. 141st

City: Glenpool County: Tulsa Zip Code: 74033

Latitude: _____ Longitude: _____

IV. New Facility/Site Information:

If you are no longer the operator of the facility/site, provide the following information pertaining to the new operator at the facility/site if any:

Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

V. Operator's Signature:

Print Name: Amy Stone Date: 6-29-15

Signature: Amy Stone Title: Owner

Chad Keller

RECEIVED

JUN 30 2015

STORMWATER

November 19, 2013

MATT RITCHIE
GREENHILL CONCRETE PRODUCTS INC
PO BOX 10
CATOOSA OK 74015

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number: OKR052614

Dear MATT RITCHIE

The new Notice of Intent (NOI) for the facility listed below was received on October 8, 2013 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in Tulsa County.

Facility:

GREENHILL CONCRETE - BROKEN ARROW, OK CONCRETE BATCH PLANT
1601 E. HOUSTON AVE.
BROKEN ARROW, OK 74012

All applicable fees associated with this authorization have been paid.

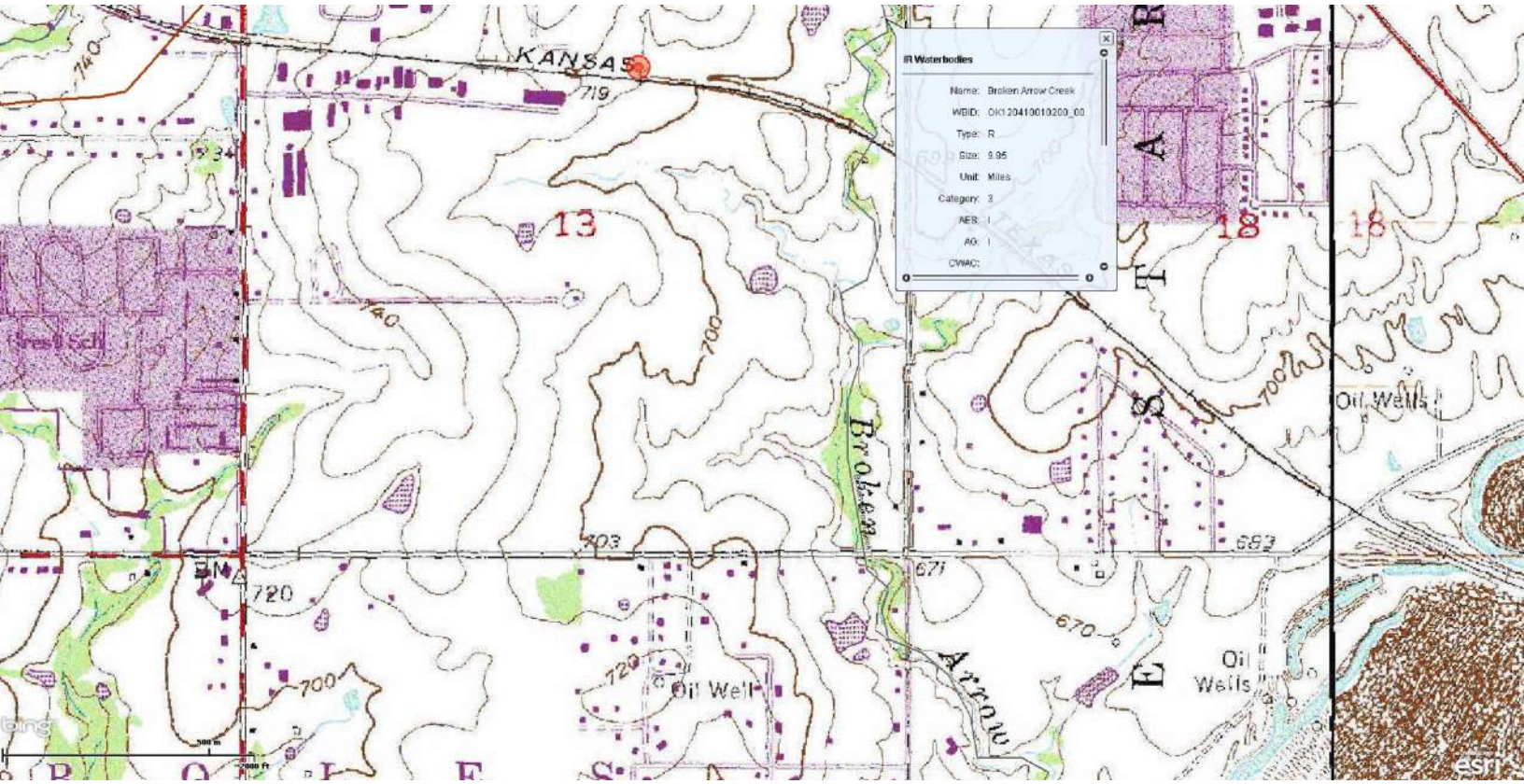
Sites that remain active as of July 1, 2014 will be invoiced for the full permit year (July 1, 2014 - June 30, 2015).

If you have any questions regarding this permit or the Storm Water Program, please call Matthew Johnson of the Environmental Complaints and Local Services Division at (405) 702-6182.

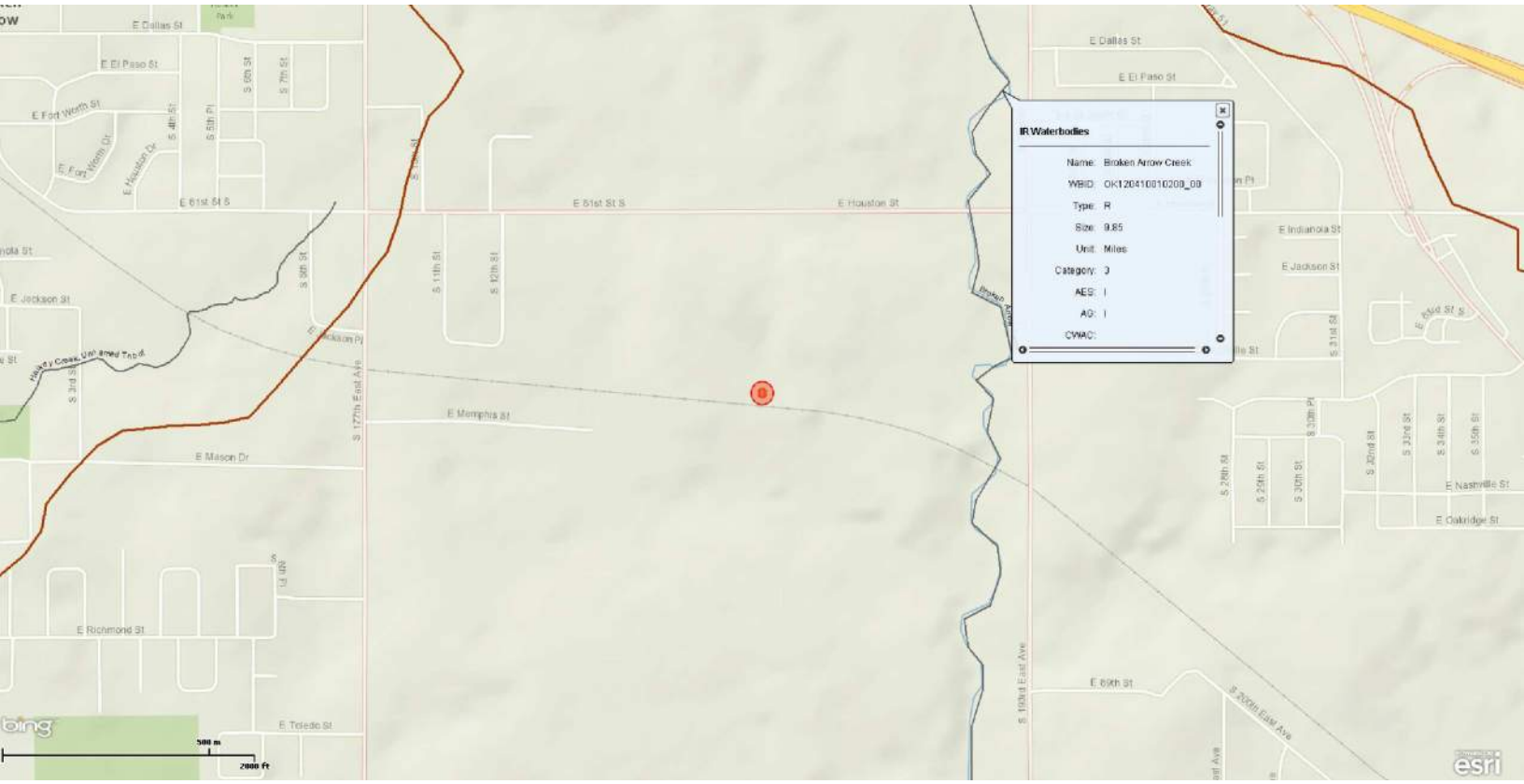
Sincerely,

Matt Johnson

Matthew Johnson
Environmental Program Specialist
Environmental Complaints and Local Services



Copyright 2011 Esri. All rights reserved. Mon Oct 14 2013 01:07:06 PM.



Copyright 2011 Esri. All rights reserved. Mon Oct 14 2013 01:05:59 PM.

Copyright 2011 Esri. All rights reserved. Fri May 16 2014 11:29:28 AM.

RECEIVED

FEB 16 2012

See Reverse Side for Instructions

STORMWATER

OPDES FORM 605-002B

Oklahoma Department of Environmental Quality (DEQ)
Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☑ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK

I. Facility Owner/Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 - Email Address: mattr@greenhillconcrete.com

II. Site Information

Name of the Facility: Greenhill Materials Company, Inc.

Location of Facility: 14701 E. 46th Street North

City: Owasso Zip Code: 74055 -

Latitude: 36.234 deg N Longitude: 95.802 deg W County: Rogers

III. Facility Activity

MS4 Operator: NA

Receiving Water Body: Bird Creek

Is the receiving water body on the DEQ 303(d) impaired water list? ☑ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 1422 Sector: J Secondary : Sector:

Is your SWP3 developed? ☑ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? No (Yes) or (No)

Facility is located above the groundwater table and does not conduct mine dewatering.

ENDANGERED SPECIES ELIGIBILITY

a. ☑ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☐ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 2/16/12

Signature: Title: Materials Manager

For DEQ use Only: Assigned Authorization Number: OKR05 2212

DEQ ECLS

FEB 02 2012

RECEIVED

See Reverse Side for Instructions

OPDES FORM 605-002B

DEQ OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☒ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK General Permit not issued to date

I. Facility Owner/Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 - Email Address: mattr@greenhillconcrete.com

II. Site Information

Name of the Facility: Greenhill Materials Company, Inc.

Location of Facility: 14701 E. 46th Street North

City: Owasso Zip Code: 74055 -

Latitude: 36.234 deg N Longitude: 95.802 deg W County: Rogers

III. Facility Activity

MS4 Operator: NA

Receiving Water Body: Bird Creek, unnamed tributary

Is the receiving water body on the DEQ 303(d) impaired water list? ☐ Yes ☒ No

SIC or Designated Activity Code and Sector Primary : 1422 Sector: J Secondary : Sector:

Is your SWP3 developed? ☒ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? No (Yes) or (No)
(Facility is located above the groundwater table and does not conduct mine dewatering.)

ENDANGERED SPECIES ELIGIBILITY

a. ☒ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☐ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

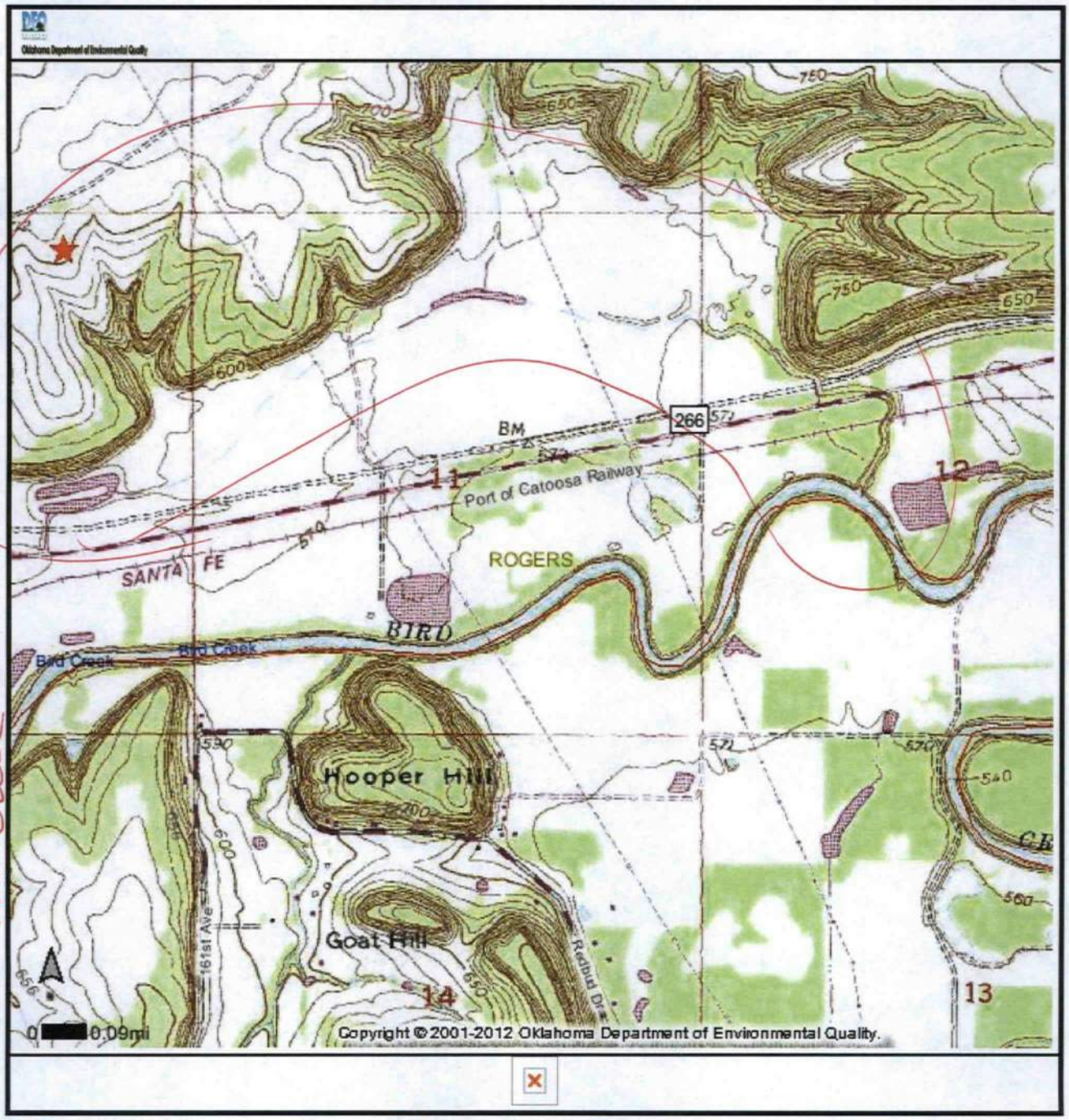
I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 1/27/12

Signature: Matt Ritchie Title: VP Materials

For DEQ use Only: Assigned Authorization Number: OKR05 2301

11-02657



Unnamed tributary Bird Creek

Shawn Roberts

Randy Beeson 918. 695-8840

Site Name: Greenhill Materials Company Inc

Paid☐ Amount _____ Receipt#_____

☐ Date Received: ECLS 2-2-12

☐ Initial Review Completed Date_____

☐ Search Database for duplicate NOI's Date_____

☐ Forward NOI to Amber McIntyre ___ or M.J. ___ Date 2-7-12 LB
Date Called_____ Date Letter Mailed _____

- ☒ Owner/Operator
- ☒ Site Name
- ☒ Federal/State sensitive watershed
- ☒ 303d Stream
- ☒ Endangered Species
- ☒ Signature is someone with owner/operator entity
- ☒ Lat/Long matches site address/County
- ☒ Site Address
- ☒ Receiving Stream
- ☒ SIC/Sector (see note on NOI)
- ☒ SWP3 – see additional checklist

Date Returned 2/7/12

☐ If applicable, Faxed to USFWS Date _____

☐ Enter data into Database Date_____ Permit No.**OKR05** 2301

☐ Merge data and print Date_____

☐ To Misty for review Date _____

☐ Prepare for Matt Pace signature Date _____
Date Returned _____

RH
☐ To ~~Richard~~ for review Date 3/16/12

☐ Route to Water Quality Date _____
Date Returned _____

☐ Make Copies Date _____

☐ Mail to all Parties Date _____

OK RH 3/21/12

Comment/Notes 3/19/12. Spoke to Randy Beeson, Environmental, and he confirmed that they have an SWP3

See Reverse Side for Instructions

OPDES FORM 605-002B Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☑ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OKR05 045781

I. Facility Owner/Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 - Email Address: mattr@greenhillconcrete.com

II. Site Information

Name of the Facility: Greenhill Concrete - Broken Arrow, OK Concrete Batch Plant

Location of Facility: 1601 E. Houston Street

City: Broken Arrow Zip Code: 74012 -

Latitude: 36 deg 02' 33" N Longitude: 95 deg 46' 08" W County: Tulsa

III. Facility Activity

MS4 Operator: City of Broken Arrow

Receiving Water Body: Broken Arrow Creek

Is the receiving water body on the DEQ 303(d) impaired water list? ☐ Yes ☑ No

SIC or Designated Activity Code and Sector Primary : 3273 Sector: E Secondary : Sector:

Is your SWP3 developed? ☑ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? No (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☑ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☐ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 10/3/13

Signature: Title: Materials Manager

For DEQ use Only: Assigned Authorization Number: OKR05 21614

RECEIVED
OCT 8 2013
ECLS

R 13-08715

See Reverse Side for Instructions

OPDES FORM 605-002B Sept. 5, 2011

Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☑ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OKR 0045781

I. Facility Owner/Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 - Email Address: mattr@greenhillconcrete.com

II. Site Information

Name of the Facility: Greenhill Concrete - Broken Arrow, OK Concrete Batch Plant

Location of Facility: 1601 E. Houston Street

City: Broken Arrow Zip Code: 74012 -

Latitude: 36 deg 02' 33" N Longitude: 95 deg 46' 08" W County: Tulsa

III. Facility Activity

MS4 Operator: City of Broken Arrow

Receiving Water Body: Broken Arrow Creek ← Unnamed Trib. to (9.85)

Is the receiving water body on the DEQ 303(d) impaired water list? ☐ Yes ☑ No

SIC or Designated Activity Code and Sector Primary : 3273 Sector: E Secondary : Sector:

Is your SWP3 developed? ☑ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? No (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☑ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☐ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 10/3/13

Signature: Title: Materials Manager

For DEQ use Only: Assigned Authorization Number: OKR05 21614

RECEIVED
OCT 8 2013
ECLS

R 13-08715

MRS 10/14/13

ADDENDUM B-NOTICE OF INTENT 1/9/08 mg

See Reverse Side for Instructions

DEQ FORM 605-002A
September 13, 2007

Oklahoma Department of Environmental Quality
Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One Acres or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY INDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WTIH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT IN DORDER TO OBTAIN AUTHORIZATION. ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM SEE INTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

TYPE OF APPLICATION MODIFIED **PREVIOUS Authorization Number OKR100613**

I. Facility Owner/Operator Information

If you are a Co-permittee, check this box ☐

Name: SHERWOOD CONST CO
Phone: (918) 266-6861
Address: PO BOX 10
Status of Owner/Operator: P
City: CATOOSA State: OK Zip Code: 74015-
E-mail Address: DARYLW@SHERWOODOKLAHOMA.COM

II. Site Informatio

Name of the Project: GREENHILL MATERIALS
Address ~~17401~~ 14701 E 46TH ST N
City: OWASSO County: ROGERS Zip Code: 74055
Telephone No.:
Location: Latitude: 36 13 58 Longitude: 95 07 30
Has a Storm Water Pollution Prevention (SWP3) been developed? Yes
Address of location of SWP3 for viewing:
Address: Phone:
City: Zip Code:
Name of Receiving Water Body: BIRD CREEK
Is the Receiving Water Body on the DEQ 303(d) List? ☐ NO ☒ YES
Is this facility/site on Indian Country land? ☒ NO ☐ YES (See Instructions)
Is there an approved TMDL applicable to this site? ☒ NO ☐ YES
Is this site a part of the common plan of development or sale? ☒ NO ☐ YES Estimated area to be disturbed (to nearest acre): 20

01/01/2000 Construction Start Date
01/01/2020 Estimated Completion Date

Is the Storm Water Pollution Prevention Plan in Compliance with all Applicable local sediment and erosion plans?

☒ Yes ☐ No ☐ None

ENDANGERED SPECIES

Based on the instructions provided in Part II and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds? ☐ YES ☒ NO

If the answer is yes, please refer to Part II.2 Step 2.
All permit eligibilty requirements with regard to protection of endangered species through the indicated Section of Part I.3.2.E.2 of the permit have been complied with (check one or more boxes).

a ☒ b ☐ c ☐ d ☐ e ☐

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part 1.3.

Name (Please Print): John R Curtis Date: 16 Oct 07
Signature: Title: Pres

RECEIVED
DEC 26 2007
WATER QUALITY DIVISION

FOR DEQ use only: NEW Authorization Number: OKR108311

RECEIVED OCT 18 2007

NR

Instructions - DEQ Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity to be Covered Under the OPDES General Permit OKR10

Who Must File A Notice of Intent Form

Under the provisions of the Clean Water Act, as amended, (33 U.S.1251 et.seq.....the Act), Oklahoma Environment Code, Title 27A of the Oklahoma Statues, Secton 2-14-101 et. seq. and the rules OAC 252:004-15, discharge of storm water from construction activities is prohibitied without an Oklahoma Pollutant Discharge Elimiation System Permit. The operator of a constrution site that has such a storm water discharge must submit a NOI to obtain coverage under an OPDES Storm Water General Permit (OKR10). If you have questions about whether you need a permit under the OPDES Storm Water program, or if you need infromation, write to the address listed belorw or telephone the Envrionmental Complaints and Local Services Division, Department of Environmental Quality (DEQ), at (405) 702-6100 and ask for the Storm Water Unit.

Where to File NOI Form

DEQ
Environmental Complaints and Local Services (ECLS)
Storm Water Unit
P.O. Box 1677
Oklahoma City, OK 73101-1677

FAX (405) 702-6223

Note: do not submit SWP3 with the NOI, unless the project is located within outstanding resource waters, or Federal and State sensitive waters and watersheds, or lager site of disturbing 20 acres or more acre land.

Completing The Form

You must type or print, using upper-case letters, in the appropriate areas only. If you have any questions on this form, call DEQ-ECLS at (405) 702-6100 and ask for the Storm Water Unit.

Section I. Facility Owner/Operator Information

Provide the legal name, mailing address, and telephone number of the person, firm, public organization, or any other entitiy that either individually or together meet either of the following two criteria: (1) have operational control over the site specifications (including the ability to make modifications in specifications); and (2) have the day-to-day operational control of those activities at the site necessary to ensure compliance with plan requirements and permit conditions. If you are a Co-Permittee, check the appropriate box. Do not use a colloquial name.

Enter the appropriate letter to indicate the legal status of the operator of the facility: F = Federal; S = State; M = Public (other than Federal or State); P = Private.

Section II. Site Information

Enter the Project's official or legal name and complete street address, including city, county, state, ZIP code, and phone number. If the site lacks a street address, indicate with a general statement the location of the site (e.g., Intersection of State Highways 61 and 34). The application must also provide the latitude and longitude of the facility in degrees, minutes, and seconds to the nearest 15 seconds (45° 7' 24" = 45.1234 decimal latitude) of the approximate center of the site.

The latitude and longitude of your facility can be located on USGS quadrangle maps. The quadrangle maps may be obtained at 1-800-USA MAPS. Longitude and latitude may also be obtained at the Census Bureau Internet site: http://www.census.gov/cgi-bin/gazetteer. Only one location description is needed: address; section, township, and range; or latitude and longitude.

Provide the address and phone number where the SWP3 may be viewed, if different from address previously given. Check appropriate box.

Enter the name of the receiving water body, the closest predominant receiving water body. The Oklahoma 303(d) list can be found online at www.deq.state.ok.us/WQDnew/index.htm or the DEQ GIS Map and Data Viewer

If your facility or site is on Indian Country land, do not complete this form. File your NOI with the EPA using EPA Form 3510-9.

Indicate whether your discharge will be consistent with the conditions and requirements of EPA approved or established TMDLs.

Indicate whether your site is part of the common plan of development or sale.

Enter the estimated area to be disturbed including but not limited to: grubbing, excavation, grading, and utilities and infrastructure installation. Indicate to the nearest acre.

Enter the construction start and estimated completion date using four digits for the year.

Indicate if the proposed construction site or land disturbing activity is within the corridor of a listed sensitive water or watershed, Addendum A of the General Permit and associated with the discharges and requirements to be covered by this permit as follows, Part 1.3.2.E.2:

a The proposed construction site or land disturbing activity is not located within any of the corridors of the Federal or State listed sensitive waters or watersheds, and further investigation is not required.

b The proposed construction site or land disturbing activity is located within a corridor of a Federally or State listed sensitive water or watershed (Addendum A). The SWP3 describes this area in relation to the listed water or watershed and specifies the measures to be employed to protect the endangered or threatened species or their critical habitat.

c Consultation with the USFWS for Federal listed sensitive waters and watersheds or the ODWC for State listed sensitive waters, (see Part 11.) has concluded that the effects on listed species and critical habitat of the applicant's storm water discharges and storm water discharge-related activities, results in either a no jeopardy opinion or a written concurrence by the agency on a finding that the applicant's storm water discharges and storm water discharge-related activities are not likely to adversely affect listed species or critical habitat; or

d The applicant's construction activities are authorized by the appropriate Federal or State agency and that authorization addresses the incidental taking of listed species by the applicant's storm water discharge or storm water discharge-related activities; or

e The applicant's storm water discharges and storm water discharge-related activities were already addressed in another operator's certification of eligibility under Part 1.3.2.E.2 a, b, c, or d that included the applicant's project area. By certifying eligibility under Part 1.3.2.E.2 f, the applicant agrees to comply with applicable measures or controls upon which the other operator's certification under Part 1.3.2.E.2 a, b, c or d was based.

Indicate if the SWP3 is in compliance with all other applicable local sediment and erosion plans.

Section III. Certification

Federal Statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or their designee, or any other person who performs similar policy or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manger is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign had been assigned or delegated to the manager in accordance with corporate procedures.

For a partnership or sole proprietorship: by a general partner of the proprietor, or; For a municipality, state, Federal, or other public agency: by either a principal executive or ranking elected official.

RECEIVED
DEC 28 2007
DEQ ECLS

PLEASE MAKE SURE YOU ACQUIRE A COPY OF THIS PERMIT AND CAREFULLY READ ALL THE TERMS AND CONDITIONS

ADDENDUM B-NOTICE OF INTENT

See Reverse Side for Instructions

DEQ FORM 605-002A
September 13, 2007

Oklahoma Department of Environmental Quality Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One Acres or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY INDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WTIH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT IN DORDER TO OBTAIN AUTHORIZATION. ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM SEE INTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

TYPE OF APPLICATION MODIFIED **PREVIOUS Authorization Number OKR100613**

I. Facility Owner/Operator Information

If you are a Co-permittee, check this box ☐

Name: SHERWOOD CONST CO
Phone: (918) 266-6861
Address: PO BOX 10
Status of Owner/Operator:
City: CATOOSA State: OK Zip Code: 74015-
E-mail Address: DARYLW@SHERWOODOKLAHOMA.COM

II. Site Informatio

Name of the Project: GREENHILL MATERIALS
Address 17401 E 46TH ST N
City: OWASSO County: ROGERS Zip Code:
Telephone No.: **Location:** Latitude: Longitude:
Has a Storm Water Pollution Prevention (SWP3) been developed? Yes
Address of location of SWP3 for viewing:
Address: Phone:
City: Zip Code:
Name of Receiving Water Body: BIRD CREEK
Is the Receiving Water Body on the DEQ 303(d) List? ☒ NO ☒ YES Is this facility/site on Indian Country land? ☒ NO ☒ YES (See Instructions)
Is there an approved TMDL applicable to this site? ☒ NO ☒ YES
Is this site a part of the common plan of development or sale? ☒ NO ☒ YES Estimated area to be disturbed (to nearest acre):

___/___/___ Construction Start Date
___/___/___ Estimated Completion Date

Is the Storm Water Pollution Prevention Plan in Compliance with all Applicable local sediment and erosion plans?

☒ Yes ☒ No ☒ None

ENDANGERED SPECIES

Based on the instructions provided in Part II and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds? ☒ YES ☒ NO

If the answer is yes, please refer to Part II.2 Step 2.
All permit eligibilty requirements with regard to protection of endangered species through the indicated Section of Part I.3.2.E.2 of the permit have been complied with (check one or more boxes).

a ☐ b ☐ c ☐ d ☐ e ☐

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part 1.3.

Name (Please Print): John R Curtis Date: 16 Oct 07
Signature: Title: President

FOR DEQ use only: NEW Authorization Number: OKR108311

RECEIVED OCT 18 2007

Instructions - DEQ Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity to be Covered Under the OPDES General Permit OKR10

Who Must File A Notice of Intent Form

Under the provisions of the Clean Water Act, as amended, (33 U.S.1251 et.seq.....the Act), Oklahoma Environment Code, Title 27A of the Oklahoma Statues, Secton 2-14-101 et. seq. and the rules OAC 252:004-15, discharge of storm water from construction activities is prohibitied without an Oklahoma Pollutant Discharge Elimiation System Permit. The operator of a constrution site that has such a storm water discharge must submit a NOI to obtain coverage under an OPDES Storm Water General Permit (OKR10). If you have questions about whether you need a permit under the OPDES Storm Water program, or if you need infromation, write to the address listed belorw or telephone the Envrionmental Complaints and Local Services Division, Department of Environmental Quality (DEQ), at (405) 702-6100 and ask for the Storm Water Unit.

Where to File NOI Form

DEQ
Environmental Complaints and Local Services (ECLS)
Storm Water Unit
P.O. Box 1677
Oklahoma City, OK 73101-1677

FAX (405) 702-6223

Note: do not submit SWP3 with the NOI, nnless the project is located within ontstanding resource waters, or Federal and State sensitive waters and watersheds, or lager site of distnrbing 20 acres or more acre land.

Completing The Form

You must type or print, using upper-case letters, in the appropriate areas only. If you have any questions on this form, call DEQ-ECLS at (405) 702-6100 and ask for the Storm Water Unit.

Section I. Facility Owner/Operator Information

Provide the legal name, mailing address, and telephone number of the person, firm, public organization, or any other entitiy that either individually or together meet either of the following two criteria: (1) bave operational control over the site specifications (including the ability to make modifications in specifications); and (2) have the day-to-day operational control of those activities at the site necessary to ensure compliance with plan requirements and permit conditions. If you are a Co-Permittee, check the appropriate box. Do not use a colloquial name.

Enter the appropriate letter to indicate the legal status of the operator of the facility: F = Federal; S = State; M = Public (other than Federal or State); P = Private.

Section II. Site Information

Enter the Project's official or legal name and complete street address, including city, county, state, ZIP code, and phone number. If the site lacks a street address, indicate with a general statement the location of the site (e.g., Intersection of State Highways 61 and 34). The application must also provide the latitude and longitude of the facility in degrees, minutes, and seconds to the nearest 15 seconds (45° 7' 24" = 45.1234 decimal latitude) of the approximate center of the site.

The latitude and longitude of your facility can be located on USGS quadrangle maps. The quadrangle maps may be obtained at 1-800-USA MAPS. Longitude and latitude may also be obtained at the Census Bureau Internet site: http://www.census.gov/cgi-bin/gazetteer. Only one location description is needed: address; section, township, and range; or latitude and longitude.

Provide the address and phone number where the SWP3 may be viewed, if different from address previously given. Check appropriate box.

Enter the name of the receiving water body, the closest predominant receiving water body. The Oklahoma 303(d) list can be found online at www.deq.state.ok.us/WQDnew/index.htm or the DEQ GIS Map and Data Viewer

If your facility or site is on Indian Country land, do not complete this form. File your NOI with the EPA using EPA Form 3510-9.

Indicate whether your discharge will be consistent with the conditions and requirements of EPA approved or establisbed TMDLs.

Indicate wbether your site is part of the common plan of development or sale.

Enter the estimated area to be disturbed including but not limited to: grubbing, excavation, grading, and utilities and infrastructure installation. Indicate to the nearest acre.

Enter the construction start and estimated completion date using four digits for the year.

Indicate if the proposed construction site or land disturbing activity is within the corridor of a listed sensitive water or watershed, Addendum A of the General Permit and associated with the discharges and requirements to be covered by this permit as follows, Part 1.3.2.E.2:

a The proposed construction site or land disturbing activity is not located within any of the corridors of the Federal or State listed sensitive waters or watersheds, and further investigation is not required.

b The proposed construction site or land disturbing activity is located within a corridor of a Federally or State listed sensitive water or watershed (Addendum A). The SWP3 describes this area in relation to the listed water or watershed and specifies the measures to be employed to protect the endangered or threatened species or their critical habitat.

c Consultation with the USFWS for Federal listed sensitive waters and watersheds or the ODWC for State listed sensitive waters, (see Part 11.) has concluded that the effects on listed species and critical habitat of the applicant's storm water discharges and storm water discharge-related activities, results in either a no jeopardy opinion or a written concurrence by the agency on a finding that the applicant's storm water discharges and storm water discharge-related activities are not likely to adversely affect listed species or critical habitat; or

d The applicant's construction activities are authorized by the appropriate Federal or State agency and that authorization addresses the incidental taking of listed species by the applicant's storm water discharge or storm water discharge-related activities; or
e The applicant's storm water discharges and storm water discharge-related activities were already addressed in another operator's certification of eligibility under Part 1.3.2.E.2 a, b, c, or d that included the applicant's project area. By certifying eligibility under Part 1.3.2.E.2 f, the applicant agrees to comply with applicable measures or controls upon which the other operator's certification under Part 1.3.2.E.2 a, b, c or d was based.

Indicate if the SWP3 is in compliance with all other applicable local sediment and erosion plans.

Section III. Certification

Federal Statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:
For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in cbarge of a principal business function, or their designee, or any other person who performs similar policy or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manger is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprebensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are establisbed or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign bad been assigned or delegated to the manager in accordance with corporate procedures.
For a partnership or sole proprietorship: by a general partner of the proprietor, or; For a municipality, state, Federal, or other public agency: by either a principal executive or ranking elected official.

PLEASE MAKE SURE YOU ACQUIRE A COPY OF THIS PERMIT AND CAREFULLY READ ALL THE TERMS AND CONDITIONS

ADDENDUM B-NOTICE OF INTENT

See Reverse Side for Instructions

4/9/08 mg

DEQ FORM 605-002A

September 13, 2007

Oklahoma Department of Environmental Quality
Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One Acres or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT IN ORDER TO OBTAIN AUTHORIZATION. ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM SEE INTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

TYPE OF APPLICATION MODIFIED **PREVIOUS Authorization Number OKR100613**

I. Facility Owner/Operator Information

If you are a Co-permittee, check this box ☐

Name: SHERWOOD CONST CO Phone: (918) 266-6861

Address: PO BOX 10 Status of Owner/Operator: P

City: CATOOSA State: OK Zip Code: 74015- E-mail Address: DARYLW@SHERWOODOKLAHOMA.COM

II. Site Information

Name of the Project: GREENHILL MATERIALS Address: 17401 E 45TH ST N

City: OWASSO County: ROGERS Zip Code:

Telephone No.: Location: Latitude: 36 13 58 Longitude: 95 47 30

Has a Storm Water Pollution Prevention (SWP3) been developed? Yes

Address of location of SWP3 for viewing:

Address: Phone:

City: Zip Code:

Name of Receiving Water Body: BIRD CREEK

Is the Receiving Water Body on the DEQ 303(d) List? ☐ NO ☒ YES Is this facility/site on Indian Country land? ☒ NO ☐ YES (See instructions)

Is there an approved TMDL applicable to this site? ☒ NO ☐ YES

Is this site a part of a common plan of development or sale? ☒ NO ☐ YES Estimated area to be disturbed (to nearest acre): 20

01/01/2008 01/01/2010

Construction Start Date Estimated Completion Date

Is the Storm Water Pollution Prevention Plan in Compliance with all Applicable local sediment and erosion plans?

☒ Yes ☐ No ☐ None

ENDANGERED SPECIES

Based on the instructions provided in Part II and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds? ☐ YES ☒ NO

If the answer is yes, please refer to Part II.2 Step 2.

All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part I.3.2.B.2 of the permit have been complied with (check one or more boxes).

a ☐ b ☐ c ☐ d ☐ e ☐

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part I.3.

Name (Please Print): John R Curtis Date: 16 Oct 07

Signature: Title: Pres

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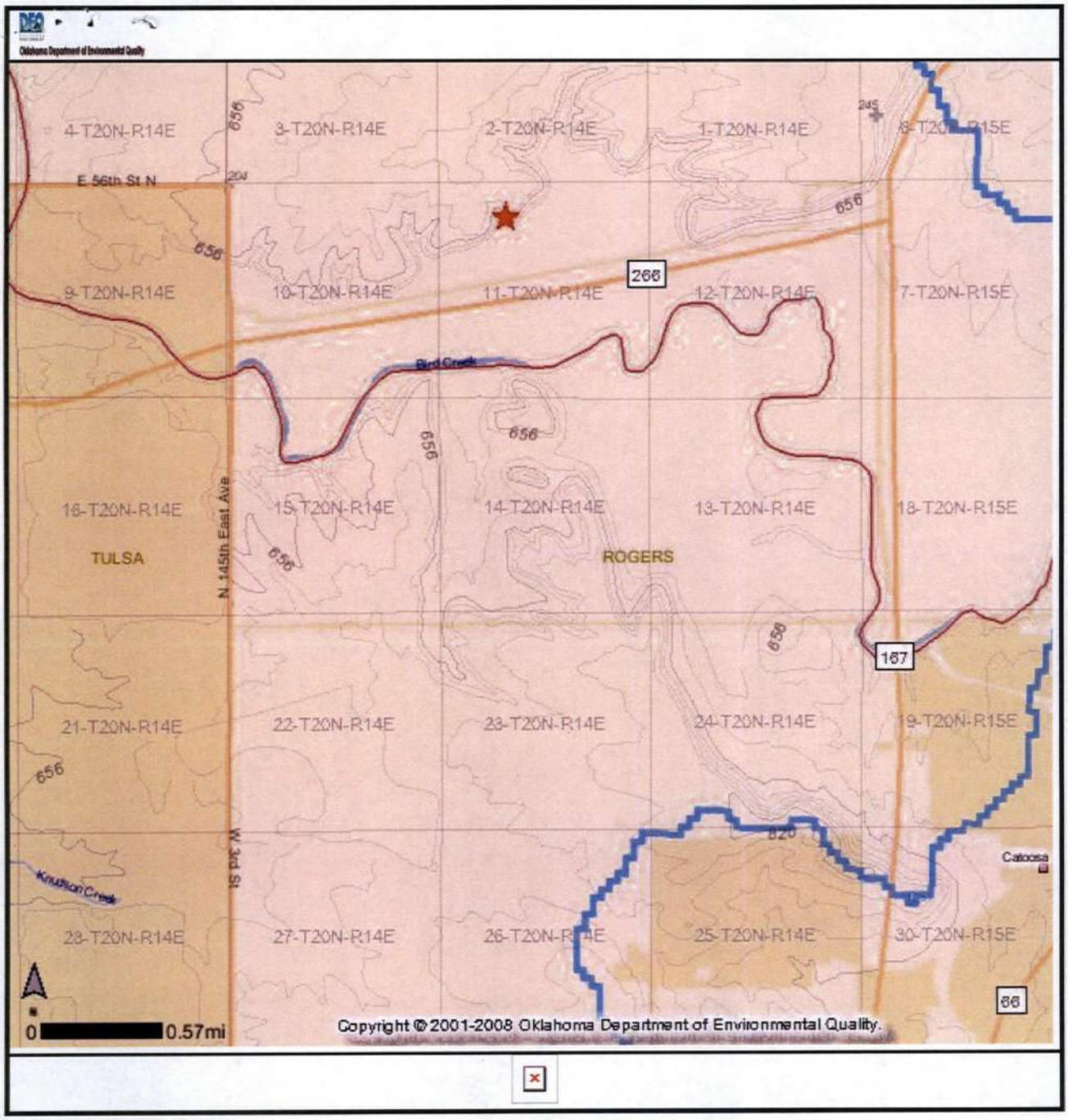
OCT 26 2007

WATER QUALITY DIVISION

RECEIVED OCT 18 2007

FOR DEQ use only: NEW Authorization Number: OKR108311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ADDENDUM B –NOTICE OF INTENT

1/31/03 mg 2/25/03 AC See Reverse Side for Instructions

Oklahoma Department of Environmental Quality

DEQ FORM 605-002A
September 13, 2002

Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One to Five Acres and Sites of Five or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

I. Facility Owner/Operator Information (If you are a Co-permittee check this box) ☐

Name: Sherwood Construction Phone: (918) 266-6861

Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 E-mail Address: darylw@sherwoodoklahoma.com

II. Site Information

Name of the project Greenhill Materials Address: 17401 E 46th Street North

City Owasso County: Rogers ZIP Code:

Telephone No. (918) 274-6560 S-10 T-20N R-14E Location: Latitude: 36° 14' Longitude: 95° 48'

Is the construction site within any of the corridors of the listed sensitive waters or watersheds (Addendum A)? Federal N State N (Yes or No)

Has Storm Water Pollution Prevention Plan (SWP3) been developed? ☒ Yes ☐ No Is SWP3 implemented? ☒ Yes ☐ No

Address of location of SWP3 for viewing: ☐ Address in I. Above. ☒ Address in II. Above. ☐ Other, please specify below.

Address: Phone: ( )

City: Zip Code:

Other Operational OPDES Number: OK0044059 OKSC0114I or NPDES Number:

Name of Receiving Water Body: Unnamed Trib. of Bird Creek

Is the Receiving Water Body on the DEQ 303(d) list? ? ☒ No ☒ Yes Is this facility/site on Indian Country land? ☒ No ☐ Yes (See Instructions)

Indicate the common plan construction size: Between one and five acres _____ Five or More acres X

Estimated area to be disturbed (to nearest acre): 1666

(6 / 1 / 1999) Month / Day / Year — Construction Start Date

(12 / 31 / 2050) Month / Day / Year — Estimated Completion Date

Will construction (land disturbing activities) be conducted for Storm water control? ☐ Yes ☒ No

Is the Storm Water Pollution Prevention Plan in compliance with all Applicable local sediment and erosion plans? ☒ Yes ☐ No ☐ None

ENDANGERED SPECIES

Based on the instructions provided in Part X and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds?

☐ Yes ☒ No

If the answer is yes, please refer to Part X. B. Step 2.

All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part I.B.3.e.(2) of the permit have been complied with. (check one or more boxes):

(a) ☒ (b) ☐ (c) ☐ (d) ☐ (e) ☐

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part I. B.

Name (Please Print): JOHN R CURTIS Date: 24 JAN 03

Signature: John R Curtis Title Manager

For DEQ use only: Assigned Authorization Number: OKR10 0613

Instructions – DEQ Notice of Intent (NOI) for Storm Water Discharges (SWD) Associated with Construction Activity to be Covered Under the OPDES Permit OKR10

Who Must File A Notice Of Intent Form

Under the provisions of the Clean Water Act, as amended, (33 U.S. 1251 et.seq.....the Act), Oklahoma Environmental Code, Title 27A of the Oklahoma Statutes, Section 2-14-101 et. seq. and the rules OAC 252:002-15, discharge of storm water from construction activities is prohibited without an Oklahoma Pollutant Discharge Elimination System Permit. The operator of a construction site that has such a storm water discharge (SWD) must submit a NOI to obtain coverage under an OPDES Storm Water General Permit (OKR10). If you have questions about whether you need a permit under the OPDES Storm Water program, or if you need information, write to the address listed below or telephone the Environmental Complaints and Local Services Division, Department of Environmental Quality (DEQ), at (405) 702-6100 and ask for the Storm Water Unit.

Where to File NOI Form

DEQ
Environmental Complaints and Local Services
Storm Water Unit
P.O. Box 1677
Oklahoma City, OK 73101-1677

FAX (405) 702-6223
Note: do not submit SWP3 with the NOI, unless the project is located within an aquatic resource of concern and the owner/operator has not certified option (c) or (d).

Completing The Form

You must type or print, using upper-case letters, in the appropriate areas only. If you have any questions on this form, call DEQ-ECLS at (405) 702-6100 and ask for the Storm Water Unit.

Section I. Facility Owner/Operator Information
Provide the legal name, mailing address, and telephone number of the person, firm, public organization, or any other entity that either individually or together meet either of the following two criteria: (1) have operational control over the site specifications (including the ability to make modifications in specifications); and (2) have the day-to-day operational control of those activities at the site necessary to ensure compliance with plan requirements and permit conditions. If you are a Co-Permittee, check the appropriate box. Do not use a colloquial name.

Enter the appropriate letter to indicate the legal status of the operator of the facility: F = Federal; S = State; M = Public (other than Federal or State); P = Private.

Section II. Site Information
Enter the Project's official or legal name and complete street address, including city, county, state, ZIP code and phone number. If the site lacks a street address, indicate with a general statement the location of the site (e.g., Intersection of State Highways 61 and 34). The applicant must also provide the latitude and longitude of the facility in degrees, minutes, and seconds to the nearest 15 seconds (45° 7' 24" = 45.1234 decimal latitude) of the approximate center of the site.

The latitude and longitude of your facility can be located on USGS quadrangle maps. The quadrangle maps may be obtained at 1-800-USA MAPS. Longitude and latitude may also be obtained at the Census Bureau Internet site: http://www.census.gov/cgi-bin/gazetteer. Only one location description is needed: address; section, township, and range; or latitude and longitude.

Indicate if the Pollution Prevention Plan (SWP3) has been developed.

Indicate if the SWP3 has been implemented. Refer to Part IV of the General Permit for Information on SWP3s. 'Yes' means the SWP3 is ready to be implemented upon notification of coverage or that the SWP3 is ready to be implemented at the time the NOI form is submitted.

Provide the address and phone number where the SWP3 may be viewed, if different from address previously given. Check appropriate box.
Are other OPDES or NPDES permit numbers assigned to this site?

Enter the name of the receiving water body, the closest predominant receiving water body. The Oklahoma 303(d) list can be found online at www.deq.state.ok.us/WQDnew/index.htm
If your facility or site is on Indian Country land, do not complete this form. File your NOI with the EPA using EPA Form 3510-9.
Indicate the common plan construction site is between 1 and 5 acres or more than 5 acres.
Enter the estimated area to be disturbed including but not limited to: grubbing, excavation, grading, and utilities and infrastructure installation. Indicate to the nearest acre.
Enter ~~the~~ construction start and estimated completion date using four digits for the year.
Indicate if the proposed construction site or land disturbing activity is within the corridor of a listed sensitive water or watershed, Addendum A of the General Permit and associated with the discharges and requirements to be covered by this permit as follows, Part I.B.3.e.(2):

(a) The proposed construction site or land disturbing activity is not located within any of the corridors of the Federal or State listed sensitive waters or watersheds, and further investigation is not required.
(b) The proposed construction site or land disturbing activity is located within a corridor of a Federally or State listed sensitive water or watershed (Addendum A). The SWP3 describes this area in relation to the listed water or watershed and specifies the measures to be employed to protect the endangered or threatened species or their critical habitat.
(c) Consultation with the USFWS for Federal listed sensitive waters and watersheds or the ODWC for State listed sensitive waters, (see Part X.) has concluded that the effects on listed species and critical habitat of the applicant's storm water discharges and storm water discharge-related activities, results in either a no jeopardy opinion or a written concurrence by the agency on a finding that the applicant's storm water discharges and storm water discharge-related activities are not likely to adversely affect listed species or critical habitat; or
(d) The applicant's construction activities are authorized by the appropriate Federal or State agency and that authorization addresses the incidental taking of listed species by the applicant's storm water discharge or storm water discharge-related activities; or
(e) The applicant's storm water discharges and storm water discharge-related activities were already addressed in another operator's certification of eligibility under Part I. B. 3. e. (2) (a), (b), (c), or (d) that included the applicant's project area. By certifying eligibility under Part I. B. 3. e. (2) (f), the applicant agrees to comply with applicable measures or controls upon which the other operator's certification under Part I. B. 3. e. (2) (a), (b), (c) or (d) was based.

Indicate if land-disturbing activities will be conducted for the construction of storm water control.
Indicate if the SWP3 is in compliance with all other applicable local sediment and erosion plans.

Section III. Certification
Federal Statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:
For a corporation: by a responsible corporate officer, which means: (I) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign had been assigned or delegated to the manager in accordance with corporate procedures.
For a partnership or sole proprietorship: by a general partner of the proprietor, or; For a municipality, state, Federal, or other public facility: by either a principal executive or ranking elected official.

RECEIVED

MAY 12 2014

ECLS

NOTICE OF INTENT

See Reverse Side for Instructions

DEQ FORM 606-002A
Sept, 13, 2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

☒ **NEW APPLICATION** ☐ **RENEWAL** ☐ **MODIFICATION** **Enter Authorization Number: OKR10**_____

I. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: (918) 266-6861

Address: P.O. Box 10

City: Catoosa State: OK Zip Code: 74015 E-mail Address: mattr@greenhillconcrete.com

II. Site Information

Name of the project: Macy's Fulfillment Center Project Address: 7920 E. 76th Street North

City: Owasso County: Tulsa ZIP Code: 74055

Location: Latitude: 36.2592 N Longitude: -95.8948 W

Name of Receiving Water Body: Unnamed ephemeral tributaries of Ranch Creek

Is the discharge to an impaired water body on the DEQ 303(d) list? ☐ Yes ☒ No

Is there an approved TMDL or watershed plan applicable to this site? ☐ Yes ☒ No Purpose of Project Commercial Ware-house (See Instructions)

Is this site a part of the common plan of development or sale? ☐ Yes ☒ No Estimated area to be disturbed (to nearest acre): 3.4 acres

ENDANGERED SPECIES

Based on the instructions provided in Part 11 and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed Aquatic Resources of Concern (ARC)? ☐ Yes ☒ No

If the answer is yes, please refer to Part 11.2 Step 2.
All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part 1.3.2.E.2 of the permit have been complied with. (check one or more boxes):

a. ☐ b. ☐ c. ☐ d. ☐ e. ☐

III. Certification

MK (Initial) "I certify that this facility is registered with the Secretary of State of Oklahoma." Please provide the full name of company/corporation if different than that listed in Section I above.

MK (Initial) "I certify that a Storm Water Pollution Prevention Plan (SWP3) has been prepared for this facility in accordance with Part 4.5 of this permit."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part 1.3."

Name (Please Print): Matt Ritchie Date: 5/6/14

Signature: _____ Title Materials Manager

For DEQ use only: Assigned Authorization Number: OKR10 23328

P 18581.1
R13-10449

RECEIVED

MAY 12 2014

ECLS

NOTICE OF INTENT

See Reverse Side for Instructions

DEQ FORM 606-002A Sept, 13, 2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

☒ **NEW APPLICATION** ☐ **RENEWAL** ☐ **MODIFICATION** **Enter Authorization Number: OKR10**_____

I. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: (918) 266-6861

Address: P.O. Box 10

City: Catoosa State: OK Zip Code: 74015 E-mail Address: mattr@greenhillconcrete.com

II. Site Information

Name of the project: Macy's Fulfillment Center Project Address: 7920 E. 76th Street North

City: Owasso County: Tulsa ZIP Code: 74055

Location: Latitude: ~~36.2592 N~~ 36.264091 Longitude: ~~-95.8948 W~~ -95.8823

Name of Receiving Water Body: Unnamed ephemeral tributaries of Ranch Creek

Is the discharge to an impaired water body on the DEQ 303(d) list? ☐ Yes ☒ No

Is there an approved TMDL or watershed plan applicable to this site? ☐ Yes ☒ No Purpose of Project Commercial Ware-house (See Instructions)

Is this site a part of the common plan of development or sale? ☐ Yes ☒ No Estimated area to be disturbed (to nearest acre): 3.4 acres

ENDANGERED SPECIES

Based on the instructions provided in Part 11 and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed Aquatic Resources of Concern (ARC)? ☐ Yes ☒ No

If the answer is yes, please refer to Part 11.2 Step 2.
All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part 1.3.2.E.2 of the permit have been complied with. (check one or more boxes):

a. ☐ b. ☐ c. ☐ d. ☐ e. ☐

III. Certification

MK (Initial) "I certify that this facility is registered with the Secretary of State of Oklahoma." Please provide the full name of company/corporation if different than that listed in Section I above.

MK (Initial) "I certify that a Storm Water Pollution Prevention Plan (SWP3) has been prepared for this facility in accordance with Part 4.5 of this permit."

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part 1.3."

Name (Please Print): ~~Matt Ritchie~~ Date: 5/6/14

Signature: Title Materials Manager

For DEQ use only: Assigned Authorization Number: OKR10 23328

P 18581.1
R13-10449

MRS

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DEQ ECLS

See Reverse Side for Instructions

OPDES FORM 605-002B

Oklahoma Department of Environmental Quality (DEQ)
Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☑ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK

I. Facility Owner/Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 - Email Address: mattr@greenhillconcrete.com

II. Site Information

Name of the Facility: Greenhill Materials Company, Inc.

Location of Facility: Section 8, T20N, R14E, Rogers County, OK

City: Catoosa, OK Zip Code: 74015 -

Latitude: 36.234 deg N Longitude: 95.802 deg W County: Rogers

III. Facility Activity

MS4 Operator: NA

Receiving Water Body: Bird Creek

Is the receiving water body on the DEQ 303(d) impaired water list? ☑ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 1422 Sector: J Secondary : Sector:

Is your SWP3 developed? ☑ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? ~~No~~ (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☑ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☐ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 11/2/11

Signature: Title: Materials Manager

For DEQ use Only: Assigned Authorization Number: OKR05 2212

Wrong form

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SEP 28 2011

See Reverse Side for Instructions

OPDES FORM 605-002B Sept. 3, 2009

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality (DEQ)
Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

DEQ ECLS

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☒ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK_____

I. Facility Owner/Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 -

II. Site Information

Name of the Facility: Greenhill Materials Company, Inc.

Location of the Facility: Section 8, T20N, R14E, Rogers County, OK

City: Catoosa, OK Zip Code: 74015 -

Latitude: 36.234 deg N Longitude: 95.802 deg W County: Rogers

III. Facility Activity

MS4 Operator: NA

Receiving Water Body: Bird Creek

Is the receiving water body on the DEQ 303(d) impaired water list? ☒ Yes ☐ No

SIC or Designated Activity Code and Sector Primary: 1422 Sector: J Secondary: _____ Sector: _____

Are you required to submit Numeric Effluent Discharge Monitoring Reports (DMRs)? No YES (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☒ My facility is not located in Federal or State sensitive waters or watersheds.

b. ☐ My facility is located in Federal or State sensitive waters or watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 9/23/11

Signature: _____ Title: Materials Manager

For DEQ use Only: Assigned Authorization Number: OKR05 2212

R-11-0139

NOTICE OF TERMINATION

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MAR 06 2014
ECLS

DEQ FORM 606-003

Sept. 13, 2012

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF TERMINATION (NOT) FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL OR CONSTRUCTION ACTIVITY UNDER AN OPDES GENERAL PERMIT

Submission of this Notice of Termination constitutes notice that the party identified in Section I of this form is no longer authorized to discharge storm water associated with industrial or construction activities under the OPDES program.

All Requested Information Must Be Provided on This Form. See Instructions On The Back Of Form.

I. Permit Information: OPDES

Storm Water General Permit Authorization Number: OKR051574

Check here if you are no longer the operator of the facility/site: ☐

Check here if the storm water construction or industrial discharge is being terminated: ☒

II. Facility/Site Operator Information:

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa State: OK Zip Code: 74015

III. Facility/Site Location:

Name: Greenhill Concrete Products, Inc.

Address: 5411 N. 145th E. Avenue

City: Owasso State: OK Zip Code: 74055

Latitude: 36.232N Longitude: 95.810W

Rogers Co.

IV. New Facility/Site Information:

If you are no longer the operator of the facility/site, provide the following information pertaining to the new operator at the facility/site:

Name:

Address:

City: County: Zip Code:

V. Certification:

I certify under penalty of law that all storm water discharges associated with industrial/construction activity from the identified facility/site that were authorized by a general permit have been eliminated or that I am no longer the operator of the facility/site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with industrial or construction activity under this general permit, and that discharging pollutants in storm water associated with industrial or construction activity to waters of the State is unlawful under the Clean Water Act and OAC 252:606-1-3(b)(3)(L) where the discharge is not authorized by an OPDES permit. I also understand that the submittal of this Notice of Termination does not release me as an operator from liability for any violations of this permit or the Clean Water Act.

Print Name: Matt Ritchie Date: 2/24/14

Signature: Title Materials Manager

Robin Stratton - 6575
79024799

March 26, 2014

MATT RITCHIE
SHERWOOD CONSTRUCTION COMPANY INC
PO BOX 10
CATOOSA OK 74015

Re: Termination of Storm Water Industrial Discharge Authorization No. OKR051574

Dear Mr. Ritchie:

Your Notice of Termination (NOT) for the industrial facility herein identified was received and processed on March 6, 2014 by the Oklahoma Department of Environmental Quality (DEQ). Your certification confirmed that all storm water discharges associated with industrial activity from this facility, authorized by this OPDES general permit have been eliminated or that you are no longer the owner/operator of this facility. Henceforth, you are no longer required to have authorization to discharge storm water from this industrial site. However, if the facility operation changes resulting in exposure of storm water industrial activity, another authorization under the General Permit will be required prior to such change.

Identification of the industrial site of the land disturbing activity:

Site Location: **GREENHILL CONCRETE PRODUCTS INC**
5411 N 145TH E AVE
OWASSO, OK 74055

Permittees are responsible for payment of applicable permit fees for permits active at the beginning of each permit year (July 1 – June 30).

Should you have questions concerning this termination you may call Matthew Johnson of the Environmental Complaints and Local Services Division at (405) 702-6182 or write to the following address:

Oklahoma Department of Environmental Quality
Environmental Complaints and Local Services
P.O. Box 1677
Oklahoma City, OK 73101-1677

Sincerely,

Matt Johnson

Matthew Johnson
Storm Water Unit
Environmental Complaints and Local Services

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

July 17, 2012

LARRY C CREEKMORE
CHEROKEE BUILDERS INC
2005 N 167TH E AVE
TULSA OK 74116

Re: Termination of Storm Water Discharges Associated with Construction Activity Authorization No. OKR1010683

Dear Mr. CREEKMORE:

The Notice of Termination (NOT) for the above-referenced authorization was received and processed by our office on May 3, 2012. Authorization to discharge storm water for GREENHILL DISTRIBUTION CENTER II was signed and terminated on May 5, 2012. Oklahoma DEQ field staff have inspected the site and determined that this is not in compliance with the termination requirements stated in OKR10. The site did not pass inspection because of the following violation(s):

1. The site has ongoing construction and does not qualify for closure.

Discharging any pollutant without a permit or knowingly filing false information on a permit document may be subject to enforcement action. A new NOI must be submitted within 15 days for LARRY C CREEKMORE to remain in compliance.

If you have any questions or feel that there was an error in the inspection, please contact Misty Johnson at 405.702.6205.

Sincerely,

Misty Johnson

Misty Johnson
Storm Water Unit
Environmental Complaints and Local Services

c: Chad Keller

printed on recycled paper with soy ink

DEQ FORM 605-003 Feb 23, 2009	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY	NOTICE OF TERMINATION (NOT) FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL OR CONSTRUCTION ACTIVITY UNDER AN OPDES GENERAL PERMIT

Submission of this Notice of Termination constitutes notice that the party identified in Section I of this form is no longer authorized to discharge storm water associated with industrial or construction activities under the OPDES program.

All Requested Information Must Be Provided On This Form. See Instructions On The Back Of Form.

I. Permit Information: OPDES Storm Water General Permit Authorization Number: OKR1010683

Check here if you are no longer the operator of the facility/site: ☑

Check here if the storm water construction or industrial discharge is being terminated: ☐

II. Facility/Site Owner/Operator Information:

Name: Trammel Crow Phone: 312-935-1466

Address: 311 S. Wacker Dr

City: Chicago State: IL. Zip Code: 60606

III. Facility/Site Location:

Name: Greenhill Distribution Center

Address: 4243 North Garnett Rd.

City: Tulsa County: Tulsa Zip Code: 74116

Latitude: _____ Longitude: _____

19N 14E

IV. New Facility/Site Information:

If you are no longer the operator of the facility/site, provide the following information pertaining to the new operator at the facility/site:

Name: Trammel Crow

Address: 311 S. Wacker Dr.

City: Chicago State: IL. Zip Code: 60606

V. Certification

I certify under penalty of law that all storm water discharges associated with industrial/construction activity from the identified facility/site that were authorized by a general permit have been eliminated or that I am no longer the owner or operator of the facility/site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with industrial or construction activity under this general permit, and that discharging pollutants in storm water associated with industrial or construction activity to waters of the State is unlawful under the Clean Water Act and OAC 252:606-1-3(b)(3)(L) where the discharge is not authorized by an OPDES permit. I also understand that the submittal of this Notice of Termination does not release me as an owner or operator from liability for any violations of this permit or the Clean Water Act.

Print Name: LARRY C. CLEESCUMBE Date: 5/3/12

Signature: Larry C. Cleescumbe Title: E.V.P.

Chad 76275182

RECEIVED
MAY 03 2012
DEQ ECLS

RECEIVED
JUN 30 2015
ECLS

ADDENDUM C – NOTICE OF TERMINATION

DEQ FORM 606-003 Sept. 13, 2012	OKLAHOMA	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF TERMINATION (NOT) FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL OR CONSTRUCTION ACTIVITY UNDER AN OPDES GENERAL PERMIT

Submission of this Notice of Termination constitutes notice that the party identified in Section I of this form is no longer authorized to discharge storm water associated with industrial or construction activities under the OPDES program.

All Requested Information Must Be Provided on This Form. See Instructions On The Back Of Form.

I. Permit Information: OPDES

Storm Water General Permit Authorization Number: OKR1023328

Check here if you are no longer the operator of the facility/site: ☐

Check here if the storm water construction or industrial discharge is being terminated: ☒

II. Facility/Site Operator Information:

Name: Greenhill Concrete Products Inc Phone: 918-960-2194

Address: 1640 S. 101st East Ave.

City: Tulsa State: Oklahoma Zip Code: 74128

III. Facility/Site Location:

Name: Macy's Fulfillment Center Project

Address: 7920 E. 76th Street North

City: ~~Tulsa~~ OWasso State: Oklahoma Zip Code:

Latitude: 36.2592' N Longitude: -95.8929' W

35-21N-13E TUL Co.

IV. New Facility/Site Information:

If you are no longer the operator of the facility/site, provide the following information pertaining to the new operator at the facility/site:

Name: N/A - See notice of plant closure and relocation attached.

Address:

City: County: Zip Code:

V. Certification:

I certify under penalty of law that all storm water discharges associated with industrial/construction activity from the identified facility/site that were authorized by a general permit have been eliminated or that I am no longer the operator of the facility/site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with industrial or construction activity under this general permit, and that discharging pollutants in storm water associated with industrial or construction activity to waters of the State is unlawful under the Clean Water Act and OAC 252:606-1-3(b)(3)(L) where the discharge is not authorized by an OPDES permit. I also understand that the submittal of this Notice of Termination does not release me as an operator from liability for any violations of this permit or the Clean Water Act.

Print Name: Phil Rush Date: 06/25/2015

Signature: Phil Rush Title General Manager

Amber Roberson

September 15, 2015

MATT RITCHIE
GREENHILL CONCRETE PRODUCTS INC
1640 SOUTH 101 E AVE
TULSA OK 74128

Re: Termination of Storm Water Construction Discharge Authorization No. OKR1023328

Dear Mr. Ritchie:

Your Notice of Termination (NOT) for the construction site herein identified was received and processed on June 30, 2015 by the Oklahoma Department of Environmental Quality (DEQ). Your certification confirmed that all areas covered under the above authorization have met one or more of the following criteria:

- Final stabilization (see definition Part IX) has been achieved on all portions of the site for which the permittee is responsible (including if applicable, returning agricultural land to its pre-construction agricultural use);
- Another owner/operator has assumed control according to Part VI. G. 2. c. over all areas of the site that have not been finally stabilized and you have documented the date of the transfer of operational control; or
- For residential construction only, temporary stabilization has been completed and the residence has been transferred to the homeowner.

Identification of the construction or site of the land disturbing activity:

Site Location: **MACYS FULFILLMENT CENTER PROJECT**
7920 E 76TH STREET NORTH
OWASSO, OK 74055

Should you have questions concerning this termination you may call Ranee Sugrue of the Environmental Complaints and Local Services Division at (405) 702-6167 or write to the following address:

Oklahoma Department of Environmental Quality
Environmental Complaints and Local Services
P.O. Box 1677
Oklahoma City, OK 73101-1677

Sincerely,

Ranee Sugrue

Ranee Sugrue
Storm Water Unit
Environmental Complaints and Local Services

Superior. Always.

64001690

April 19, 2012

Mr. Mark Hulinger
Oklahoma Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Name Change Request, OPDES Permit No. OKG95T003, Greenhill Materials, Rogers County, OK.

Dear Mr. Hulinger:

Per our recent e-mail and telephone discussions, Sherwood Construction Co., Inc. is requesting a name change on the Oklahoma Pollutant Discharge Elimination System (OPDES) Permit for the above facility. Sherwood opened the Greenhill Materials East Quarry and Rock Crusher Plant in 2003 and has operated the facility as a subsidiary under the name Greenhill Materials, LC since that time.

As a result of some corporate restructuring, Sherwood is now requesting that the name on the referenced permit be changed to "Sherwood Construction Co., Inc., dba Greenhill Materials".

Please contact me if you or your staff has any questions regarding this request.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

Enclosure

Cc: Sherwood Construction Co., Inc.
File

RECEIVED
APR 23 2012
WATER QUALITY DIVISION

Superior. Always.

RECEIVED
MAY 2 2012
AIR QUALITY

April 27, 2012

Mr. Herb Neumann
Permit Engineer
Air Quality Division
Oklahoma Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly Drive, Suite 200
Tulsa, OK 74105-6370

Re: Air Quality General Construction Permit Notification for Sherwood Construction Co., Inc., dba Greenhill Materials, SH 266, Catoosa, OK 74038; Operating Permit No. 2005-012-O.

Dear Herb:

Per our recent telephone discussions and in accordance with the General Operating Permit noted above, this letter is to notify you that Sherwood Construction Company, Inc. has made several changes at its rock crusher facility located in Greenhill Materials East Quarry. These include the following:

1) Increase in maximum hourly production of the existing main plant from 600 TPH to 1,000 TPH,

2) Addition of a portable crusher plant rated at 350 TPH to handle peak demand,

3) Addition of a 1995 Caterpillar Model 3412 810-HP diesel generator engine to power the portable crusher plant.

I have attached spreadsheets to document facility emissions at Maximum Potential to Emit, based on each plant operating 3,000 hours/year. Sherwood understands that effective May 3, 2013, the diesel generator engine will have to comply with the requirements of NESHAP, Subpart ZZZZ, including:

1) Initial emissions testing for carbon monoxide (CO) and formaldehyde concentrations in the engine exhaust,

2) Submittal of a notification of performance testing to the Oklahoma Department of Environmental Quality (ODEQ) a minimum of 60 days prior to field testing,

3) Compliance with recordkeeping requirements,

4) Submittal of semi-annual compliance reports,

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com| www.superiorenviro.com

5) Exclusive use of non-road diesel fuel,

6) Performance of subsequent emissions tests every 8,760 hours of operation or every three years, whichever comes first.

Please contact me if our understanding of the NESAHP, Subpart ZZZZ compliance requirements is in error or if you or your staff has any questions regarding the attached spreadsheets.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb

Enclosures

cc: Sherwood Construction Co., Inc.
File

GREENHILL MATERIALS PORTABLE PLANT - DIESEL GENERATOR ENGINE MAXIMUM POTENTIAL TO EMIT

Emission Factors - Engines ≥600 HP					
Unit	NO_x	CO	SO_x	PM_{10}	VOCs
AP-42 Emission Factor (lb/hp-hr)	0.024	0.0055	0.00809xS1*	0.0007	0.00071

Assumes S1 = 0.5%.

Maximum Criteria Pollutant Emissions - Engines ≥600 HP										
Unit	NO_x		CO		SO_x		PM_{10}		VOCs	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Cat Model 3412 810-hp Generator Engine	19.44	29.16	4.46	6.68	3.28	4.92	0.57	0.85	0.58	0.86
Total	**19.44**	**29.16**	**4.46**	**6.68**	**3.28**	**4.92**	**0.57**	**0.85**	**0.58**	**0.86**

Hourly emission figures calculated from AP-42 emission factors

Based on:

810-hp Cat generator engine at 3,000 hr/yr

GREENHILL MATERIALS, LLC AIR EMISSION SUMMARY - RY2011

Emission Point	Actual Process Rate					Conversion Factor (lb/T)	Control Efficiency (% Emitted)	PM2.5 Factor (lb/T)	PM 2.5 Emissions		PM 10 Factor (lb/T)	Raw PM10 Emissions		Corrected PM 10 Emissions (PM 10 -PM 2.5) (TPY)
	Total Plant Throughput (TPY)	% Flow Thru Process*	Process Throughput (TPY)	Hours/Year	TPH				(ppy)	(TPY)		(ppy)	(TPY)	
STORAGE PILES														
Storage Piles	1,235,047	1.0	1,235,047	1805	684.24	2000	1.00	0.001	1235.047	**0.618**	0.012	14820.56	7.41	**6.79**
PROCESS EMISSIONS														
Truck Unloading to F-1	1,235,047	1.0	1,235,047	1805	684.24	2000	1.00	No AP-42 Factor	0	**0**	0.000016	19.76	0.010	**0.01**
F-1 to CR-1	1,235,047	1.0	1,235,047	1805	684.24	2000	0.10	0.000013	1.61	**0.0008**	0.0029	358.16	0.179	**0.18**
CR-1	1,235,047	1.0	1,235,047	1805	684.24	2000	0.25	0.0001	12.35	**0.006**	0.0024	741.03	0.371	**0.36**
CR-1 to C-1	1,235,047	1.0	1,235,047	1805	684.24	2000	0.10	0.000013	1.606	**0.0008**	0.0029	358.16	0.179	**0.18**
C-1 to S-1	1,235,047	1.0	1,235,047	1805	684.24	2000	0.10	0.000013	1.606	**0.0008**	0.0029	358.16	0.179	**0.18**
S-1	1,235,047	1.0	1,235,047	1805	684.24	2000	0.10	0.00005	6.175	**0.003**	0.0029	358.16	0.18	**0.18**
S-1 to C-1a	1,235,047	0.5	617,524	1805	342.12	2000	0.10	0.000013	0.803	**0.0004**	0.0029	179.08	0.09	**0.09**
C-1a to C-1b	1,235,047	0.5	617,524	1805	342.12	2000	0.10	0.000013	0.803	**0.0004**	0.0029	179.08	0.09	**0.09**
C-1b to pile	1,235,047	0.5	617,524	1805	342.12	2000	0.10	0.000013	0.803	**0.0004**	0.0029	179.08	0.09	**0.09**
S-1 to C-1c	1,235,047	0.5	617,524	1805	342.12	2000	0.10	0.000013	0.803	**0.0004**	0.0029	179.08	0.09	**0.09**
C-1c to C-1d	1,235,047	0.5	617,524	1805	342.12	2000	0.10	0.000013	0.803	**0.0004**	0.0029	179.08	0.09	**0.09**
C-1d to C-2	1,235,047	0.5	617,524	1805	342.12	2000	0.10	0.000013	0.803	**0.0004**	0.0029	179.08	0.09	**0.09**
C-2 to C-3	1,235,047	0.025	30,876	1805	17.11	2000	0.10	0.000013	0.040	**0.00002**	0.0029	8.95	0.00	**0.004**
C-3 to C-4	1,235,047	0.025	30,876	1805	17.11	2000	0.10	0.000013	0.040	**0.00002**	0.0029	8.95	0.00	**0.004**
C-4 to C-4a	1,235,047	0.025	30,876	1805	17.11	2000	0.10	0.000013	0.040	**0.00002**	0.0029	8.95	0.00	**0.004**
C-4a to C-11	1,235,047	0.025	30,876	1805	17.11	2000	0.10	0.000013	0.040	**0.00002**	0.0029	8.95	0.00	**0.004**
C-2 to S-2	1,235,047	0.475	586,647	1805	325.01	2000	0.10	0.000013	0.763	**0.0004**	0.0029	170.13	0.09	**0.08**
S-2	1,235,047	0.475	586,647	1805	325.01	2000	0.10	0.00005	2.933	**0.0015**	0.0029	170.13	0.09	**0.08**
S-2 to C-5	1,235,047	0.2375	293,324	1805	162.51	2000	0.10	0.000013	0.381	**0.0002**	0.0029	85.06	0.04	**0.04**
C-5 to C-6	1,235,047	0.2375	293,324	1805	162.51	2000	0.10	0.000013	0.381	**0.0002**	0.0029	85.06	0.04	**0.04**
C-6 to CR-2	1,235,047	0.2375	293,324	1805	162.51	2000	0.10	0.000013	0.381	**0.0002**	0.0029	85.06	0.04	**0.04**
CR-2	1,235,047	0.2375	293,324	1805	162.51	2000	0.25	0.0001	7.333	**0.0037**	0.0024	175.99	0.09	**0.08**
CR-2 to C-7	1,235,047	0.2375	293,324	1805	162.51	2000	0.10	0.000013	0.381	**0.0002**	0.0029	85.06	0.04	**0.04**
C-7 to S-3	1,235,047	0.2375	293,324	1805	162.51	2000	0.10	0.000013	0.381	**0.0002**	0.0029	85.06	0.04	**0.04**
S-3	1,235,047	0.2375	293,324	1805	162.51	2000	0.10	0.00005	1.467	**0.0007**	0.0029	85.06	0.04	**0.04**
S-3 to C-8	1,235,047	0.0475	58,665	1805	32.50	2000	0.10	0.000013	0.076	**0.00004**	0.0029	17.01	0.01	**0.01**
C-8 to C-9	1,235,047	0.0475	58,665	1805	32.50	2000	0.10	0.000013	0.076	**0.00004**	0.0029	17.01	0.01	**0.01**
C-9 to pile	1,235,047	0.0475	58,665	1805	32.50	2000	0.10	0.000013	0.076	**0.00004**	0.0029	17.01	0.01	**0.01**
S-3 to C-10	1,235,047	0.19	234,659	1805	130.00	2000	0.10	0.000013	0.305	**0.00015**	0.0029	68.05	0.03	**0.03**
C-11 to CR-3	1,235,047	0.19	234,659	1805	130.00	2000	0.10	0.000013	0.305	**0.00015**	0.0029	68.05	0.03	**0.03**
CR-3	1,235,047	0.19	234,659	1805	130.00	2000	0.25	0.0001	5.866	**0.00293**	0.0024	140.80	0.07	**0.07**
CR-3 to C-12	1,235,047	0.19	234,659	1805	130.00	2000	0.10	0.000013	0.305	**0.00015**	0.0029	68.05	0.03	**0.03**
PUGMILL EMISSIONS														
Frontend loader to feed bins	29,685	1.0	29,685	1805	16.45	2000	0.50	0.000013	0.386	**0.00019**	0.0029	43.04	0.02	**0.02**
Feed bins to gathering belt	29,685	1.0	29,685	1805	16.45	2000	0.10	0.000013	0.386	**0.00019**	0.0029	8.61	0.004	**0.004**
Gathering belt to feed belt	29,685	1.0	29,685	1805	16.45	2000	0.10	0.000013	0.386	**0.00019**	0.0029	8.61	0.004	**0.004**
										0.642				**9.10**

*Maximum process rate x maximum annual hours - per operating permit

Emission Point	Actual Process Rate: Throughput Load by Rail (TPY)	Conversion Factor (lb/T)	Control Efficiency % Emitted	Hours/Year	PM2.5 Factor (lb/T)	PM2.5 Emissions (ppy)	PM2.5 Emissions (TPY)	PM10 Factor (lb/T)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions (TPY)	Corrected PM10 Emissions (PM10-PM2.5) (TPY)
RAIL LOADOUT											
Front-end Loader to Rock Truck	193,779	2000	0.4	NA	0.000013	1.008	0.0005	0.0029	224.78	0.112	0.112
Rock Truck to Rail Car	193,779	2000	0.4	NA	0.000013	1.008	0.0005	0.0029	224.78	0.112	0.112
							0.0010				0.224

Emission Point	Actual Process Rate (VMT): Throughput by Truck (TPY)	Tons per Load	Loads per Year	Miles per Load	Vehicle Miles Traveled (VMT)	Conversion Factor (lb/T)	Control Efficiency (% Emitted)	PM2.5 Factor (lb/VMT)	PM2.5 Emissions (ppy)	PM2.5 Emissions (TPY)	PM10 Factor (lb/VMT)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions TPY	Corrected PM10 Emissions (PM10-PM2.5) (TPY)
Miscellaneous														
Plant Roads	1,041,268	20.5	50794	0.5	25396.78	2000	0.30	0.007	53.33	0.027	4.01	30552	15.28	15.25
Haul Roads	1,235,047	65.5	18856	1.5	28283.52	2000	0.30	0.009	76.37	0.038	5.35	45395	22.70	22.66
										0.065				37.91

Emission Point	Actual Process Rate: Unloading from Rail (TPY)	Conversion Factor (lb/T)	Control Efficiency % Emitted	Hours/Year	PM2.5 Factor (lb/T)	PM2.5 Emissions (ppy)	PM2.5 Emissions (TPY)	PM10 Factor (lb/T)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions (TPY)	Corrected PM10 Emissions (PM10-PM2.5) (TPY)
RAIL UNLOADING											
Rail Car to Subsurface Bin*	9,000	2000	0.1	NA	0.000013	0.012	0.000006	0.0029	2.61	0.001	0.0013
Subsurface Bin to C-a thru C-c	9,000	2000	0.1	NA	0.000013	0.012	0.000006	0.0029	2.61	0.001	0.0013
C-a thru C-c to C-d	9,000	2000	0.1	NA	0.000013	0.012	0.000006	0.0029	2.61	0.001	0.0013
C-d to pile	9,000	2000	0.1	NA	0.000013	0.012	0.000006	0.0029	2.61	0.001	0.0013
							0.000023				0.0052

TOTAL ANNUAL $PM_{2.5}$ EMISSIONS (TPY):	0.71
TOTAL ANNUAL PM_{10} EMISSIONS (TPY):	47.30

GREENHILL MATERIALS MAIN PLANT MPTE SUMMARY*

Emission Point	Actual Process Rate: Total Plant Throughput (TPY)	Actual Process Rate: % Flow Thru Process*	Actual Process Rate: Process Throughput (TPY)	Actual Process Rate: Hours/Year	Actual Process Rate: TPH	Conversion Factor (lb/T)	Control Efficiency (% Emitted)	PM2.5 Factor (lb/T)	PM 2.5 Emissions (ppy)	PM 2.5 Emissions (TPY)	PM 10 Factor (lb/T)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions (TPY)	Corrected PM 10 Emissions (PM 10-PM 2.5) (TPY)
STORAGE PILES														
Storage Piles	3,000,000	1.0	3,000,000	3000	1000.00	2000	1.00	0.001	3000	1.500	0.012	36000.00	18.00	16.50
PROCESS EMISSIONS														
Truck Unloading to F-1	3,000,000	1.0	3,000,000	3000	1000.00	2000	1.00	No AP-42 Factor	0	**0**	0.000016	48.00	0.024	**0.02**
F-1 to CR-1	3,000,000	1.0	3,000,000	3000	1000.00	2000	0.10	0.000013	3.90	**0.0020**	0.0029	870.00	0.435	**0.43**
CR-1	3,000,000	1.0	3,000,000	3000	1000.00	2000	0.25	0.0001	30.00	**0.015**	0.0024	1800.00	0.900	**0.89**
CR-1 to C-1	3,000,000	1.0	3,000,000	3000	1000.00	2000	0.10	0.000013	3.900	**0.0020**	0.0029	870.00	0.435	**0.43**
C-1 to S-1	3,000,000	1.0	3,000,000	3000	1000.00	2000	0.10	0.000013	3.900	**0.0020**	0.0029	870.00	0.435	**0.43**
S-1	3,000,000	1.0	3,000,000	3000	1000.00	2000	0.10	0.00005	15.000	**0.008**	0.0029	870.00	0.44	**0.43**
S-1 to C-1a	3,000,000	0.5	1,500,000	3000	500.00	2000	0.10	0.000013	1.950	**0.0010**	0.0029	435.00	0.22	**0.22**
C-1a to C-1b	3,000,000	0.5	1,500,000	3000	500.00	2000	0.10	0.000013	1.950	**0.0010**	0.0029	435.00	0.22	**0.22**
C-1b to pile	3,000,000	0.5	1,500,000	3000	500.00	2000	0.10	0.000013	1.950	**0.0010**	0.0029	435.00	0.22	**0.22**
S-1 to C-1c	3,000,000	0.5	1,500,000	3000	500.00	2000	0.10	0.000013	1.950	**0.0010**	0.0029	435.00	0.22	**0.22**
C-1c to C-1d	3,000,000	0.5	1,500,000	3000	500.00	2000	0.10	0.000013	1.950	**0.0010**	0.0029	435.00	0.22	**0.22**
C-1d to C-2	3,000,000	0.5	1,500,000	3000	500.00	2000	0.10	0.000013	1.950	**0.0010**	0.0029	435.00	0.22	**0.22**
C-2 to C-3	3,000,000	0.025	75,000	3000	25.00	2000	0.10	0.000013	0.098	**0.00005**	0.0029	21.75	0.01	**0.011**
C-3 to C-4	3,000,000	0.025	75,000	3000	25.00	2000	0.10	0.000013	0.098	**0.00005**	0.0029	21.75	0.01	**0.011**
C-4 to C-4a	3,000,000	0.025	75,000	3000	25.00	2000	0.10	0.000013	0.098	**0.00005**	0.0029	21.75	0.01	**0.011**
C-4a to C-11	3,000,000	0.025	75,000	3000	25.00	2000	0.10	0.000013	0.098	**0.00005**	0.0029	21.75	0.01	**0.011**
C-2 to S-2	3,000,000	0.475	1,425,000	3000	475.00	2000	0.10	0.000013	1.853	**0.0009**	0.0029	413.25	0.21	**0.21**
S-2	3,000,000	0.475	1,425,000	3000	475.00	2000	0.10	0.00005	7.125	**0.0036**	0.0029	413.25	0.21	**0.20**
S-2 to C-5	3,000,000	0.2375	712,500	3000	237.50	2000	0.10	0.000013	0.926	**0.0005**	0.0029	206.63	0.10	**0.10**
C-5 to C-6	3,000,000	0.2375	712,500	3000	237.50	2000	0.10	0.000013	0.926	**0.0005**	0.0029	206.63	0.10	**0.10**
C-6 to CR-2	3,000,000	0.2375	712,500	3000	237.50	2000	0.10	0.000013	0.926	**0.0005**	0.0029	206.63	0.10	**0.10**
CR-2	3,000,000	0.2375	712,500	3000	237.50	2000	0.25	0.0001	17.813	**0.0089**	0.0024	427.50	0.21	**0.20**
CR-2 to C-7	3,000,000	0.2375	712,500	3000	237.50	2000	0.10	0.000013	0.926	**0.0005**	0.0029	206.63	0.10	**0.10**
C-7 to S-3	3,000,000	0.2375	712,500	3000	237.50	2000	0.10	0.000013	0.926	**0.0005**	0.0029	206.63	0.10	**0.10**
S-3	3,000,000	0.2375	712,500	3000	237.50	2000	0.10	0.00005	3.563	**0.0018**	0.0029	206.63	0.10	**0.10**
S-3 to C-8	3,000,000	0.0475	142,500	3000	47.50	2000	0.10	0.000013	0.185	**0.00009**	0.0029	41.33	0.02	**0.02**
C-8 to C-9	3,000,000	0.0475	142,500	3000	47.50	2000	0.10	0.000013	0.185	**0.00009**	0.0029	41.33	0.02	**0.02**
C-9 to pile	3,000,000	0.0475	142,500	3000	47.50	2000	0.10	0.000013	0.185	**0.00009**	0.0029	41.33	0.02	**0.02**
S-3 to C-10	3,000,000	0.19	570,000	3000	190.00	2000	0.10	0.000013	0.741	**0.00037**	0.0029	165.30	0.08	**0.08**
C-11 to CR-3	3,000,000	0.19	570,000	3000	190.00	2000	0.10	0.000013	0.741	**0.00037**	0.0029	165.30	0.08	**0.08**
CR-3	3,000,000	0.19	570,000	3000	190.00	2000	0.25	0.0001	14.250	**0.00713**	0.0024	342.00	0.17	**0.16**
CR-3 to C-12	3,000,000	0.19	570,000	3000	190.00	2000	0.10	0.000013	0.741	**0.00037**	0.0029	165.30	0.08	**0.08**
PUGMILL EMISSIONS														
Frontend loader to feed bins	29,685	1.0	29,685	3000	9.90	2000	0.50	0.000013	0.386	**0.00019**	0.0029	43.04	0.02	**0.02**
Feed bins to gathering belt	29,685	1.0	29,685	3000	9.90	2000	0.10	0.000013	0.386	**0.00019**	0.0029	8.61	0.004	**0.004**
Gathering belt to feed belt	29,685	1.0	29,685	3000	9.90	2000	0.10	0.000013	0.386	**0.00019**	0.0029	8.61	0.004	**0.004**
										0.060				5.71

*Maximum process rate x maximum annual hours - per operating permit

Emission Point	Actual Process Rate: Throughput Load by Rail (TPY)	Conversion Factor (lb/T)	Control Efficiency % Emitted	Hours/Year	$PM_{2.5}$ Factor (lb/T)	$PM_{2.5}$ Emissions (ppy)	$PM_{2.5}$ Emissions (TPY)	PM_{10} Factor (lb/T)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions (TPY)	Corrected PM_{10} Emissions (PM_{10}-$PM_{2.5}$) (TPY)
RAIL LOADOUT											
Front-end Loader to Rock Truck	468,000	2000	0.4	NA	0.000013	2.434	**0.0012**	0.0029	542.88	0.271	**0.270**
Rock Truck to Rail Car	468,000	2000	0.4	NA	0.000013	2.434	**0.0012**	0.0029	542.88	0.271	**0.270**
							0.0024				0.540

Emission Point	Actual Process Rate (VMT): Throughput by Truck (TPY)	Tons per Load	Loads per Year	Miles per Load	Vehicle Miles Traveled (VMT)	Conversion Factor (lb/T)	Control Efficiency (% Emitted)	PM2.5 Factor (lb/VMT)	$PM_{2.5}$ Emissions (ppy)	$PM_{2.5}$ Emissions (TPY)	PM_{10} Factor (lb/VMT)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions TPY	Corrected PM_{10} Emissions (PM_{10}-$PM_{2.5}$) (TPY)
HAUL ROADS														
Plant Roads	2,532,000	20.5	123512	0.5	61756.10	2000	0.30	0.007	129.69	**0.065**	4.01	74293	37.15	**37.08**
Haul Roads	3,000,000	65.5	45802	1.5	68702.29	2000	0.30	0.009	185.50	**0.093**	5.35	110267	55.13	**55.04**
										0.158				92.12

Emission Point	Actual Process Rate: Unloading from Rail (TPY)	Conversion Factor (lb/T)	Control Efficiency % Emitted	Hours/Year	$PM_{2.5}$ Factor (lb/T)	$PM_{2.5}$ Emissions (ppy)	$PM_{2.5}$ Emissions (TPY)	PM_{10} Factor (lb/T)	Raw PM10 Emissions (ppy)	Raw PM10 Emissions (TPY)	Corrected PM_{10} Emissions (PM_{10}-$PM_{2.5}$) (TPY)
RAIL UNLOADING											
Rail Car to Subsurface Bin*	150,000	2000	0.1	NA	0.000013	0.195	**0.000098**	0.0029	43.50	0.022	**0.0217**
Subsurface Bin to C-a thru C-c	150,000	2000	0.1	NA	0.000013	0.195	**0.000098**	0.0029	43.50	0.022	**0.0217**
C-a thru C-c to C-d	150,000	2000	0.1	NA	0.000013	0.195	**0.000098**	0.0029	43.50	0.022	**0.0217**
C-d to pile	150,000	2000	0.1	NA	0.000013	0.195	**0.000098**	0.0029	43.50	0.022	**0.0217**
							0.000390				0.0868

MAXIMUM ANNUAL $PM_{2.5}$ PROCESS EMISSIONS (TPY):	0.060
MAXIMUM ANNUAL $PM_{2.5}$ FUGITIVE EMISSIONS (TPY):	1.66
MAXIMUM ANNUAL PM_{10} PROCESS EMISSIONS (TPY):	5.71
MAXIMUM ANNUAL PM_{10} FUGITIVE EMISSIONS (TPY):	109.25

GREENHILL MATERIALS PORTABLE PLANT - MAXIMUM POTENTIAL TO EMIT														
	Maximum Process Rate						Control		$PM_{2.5}$ Emissions		PM_{10}	Raw PM_{10} Emissions		Corrected PM_{10}
Emission Point	Total Plant Throughput (TPY)	% Flow Thru Process*	Process Throughput (TPY)	Hours/Year	TPH	Conversion Factor (lb/T)	Efficiency (% Emitted)	$PM_{2.5}$ Factor (lb/T)	(ppy)	(TPY)	Factor (lb/T)	(ppy)	(TPY)	Emissions (PM_{10}-$PM_{2.5}$) (TPY)
STORAGE PILES														
Storage Piles	1,050,000	1.0	1,050,000	3,000	350.00	2000	1.00	0.001	1050	0.525	0.012	12600.00	6.30	5.78
PROCESS EMISSIONS														
Truck Unloading to PPF-1	1,050,000	1.0	1,050,000	3,000	350.00	2000	1.00	No AP-42 Factor	0	**0**	0.000016	16.80	0.008	0.01
PPF-1 to PPCR-1	1,050,000	1.0	1,050,000	3000	350.00	2000	0.10	0.000013	1.37	**0.0007**	0.0029	304.50	0.152	0.15
PPCR-1	1,050,000	1.0	1,050,000	3000	350.00	2000	0.25	0.0001	10.50	**0.005**	0.0024	630.00	0.315	0.31
PPCR-1 to PPC-1	1,050,000	1.0	1,050,000	3000	350.00	2000	0.10	0.000013	1.365	**0.0007**	0.0029	304.50	0.152	0.15
PPC-1 to PPC-2	1,050,000	1.0	1,050,000	3000	350.00	2000	0.10	0.000013	1.365	**0.0007**	0.0029	304.50	0.152	0.15
PPC-2 to PPS-1	1,050,000	1.0	1,050,000	3000	350.00	2000	0.10	0.000013	1.365	**0.001**	0.0029	304.50	0.15	0.15
PPS-1	1,050,000	1.0	1,050,000	3000	350.00	2000	0.10	0.00005	5.250	**0.0026**	0.0029	304.50	0.15	0.15
PPS-1 to PPC-3	1,050,000	0.143	150,150	3000	50.05	2000	0.10	0.000013	0.195	**0.0001**	0.0029	43.54	0.02	0.02
PPC-3 to PPC-4	1,050,000	0.143	150,150	3000	50.05	2000	0.10	0.000013	0.195	**0.0001**	0.0029	43.54	0.02	0.02
PPS-1 to PPC-5	1,050,000	0.857	899,850	3000	299.95	2000	0.10	0.000013	1.170	**0.0006**	0.0029	260.96	0.13	0.13
PPC-5 to PPC-6	1,050,000	0.857	899,850	3000	299.95	2000	0.10	0.000013	1.170	**0.0006**	0.0029	260.96	0.13	0.13
PPC-6 to PPC-7	1,050,000	0.857	899,850	3000	299.95	2000	0.10	0.000013	1.170	**0.0006**	0.0029	260.96	0.13	0.13
TOTAL										0.0126				1.51

	Actual Process Rate (VMT)						Control		$PM_{2.5}$ Emissions		PM_{10}	Raw PM_{10} Emissions		Corrected PM_{10}
Emission Point	Throughput by Truck (TPY)	Tons per Load	Loads per Year	Miles per Load	Vehicle Miles Traveled (VMT)	Conversion Factor (lb/T)	Efficiency (% Emitted)	$PM_{2.5}$ Factor (lb/VMT)	(ppy)	(TPY)	Factor (lb/VMT)	(ppy)	TPY)	Emissions (PM_{10}-$PM_{2.5}$) (TPY)
MISCELLANEOUS														
Plant Roads	1,050,000	20.5	51220	0.5	25609.76	2000	0.30	0.007	53.78	**0.027**	4.01	30809	15.40	15.38
Haul Roads	1,050,000	65.5	16031	1.5	24045.80	2000	0.30	0.009	64.92	**0.032**	5.35	38594	19.30	19.26
										0.059				34.64

TOTAL ANNUAL $PM_{2.5}$ PROCESS EMISSIONS (TPY):	0.0126
TOTAL ANNUAL $PM_{2.5}$ FUGITIVE EMISSIONS (TPY):	0.5844
TOTAL ANNUAL PM_{10} PROCESS EMISSIONS (TPY):	1.51
TOTAL ANNUAL PM_{10} FUGITIVE EMISSIONS (TPY):	40.42

SHERWOOD CONSTRUCTION CO., INC.

TEL 918 266 6861 FAX 918 266 6482
MAIL PO BOX 10 ~ CATOOSA OKLAHOMA ~ 74015-0010

64001690

June 7, 2012

Mr. Mark Hulinger
Oklahoma Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Name Change Request, OPDES Permit No. OKG95T003, Greenhill Materials, Rogers County, OK.

Dear Mr. Hulinger:

This is to notify you that Sherwood Construction Co., Inc. is requesting a name change on the Oklahoma Pollutant Discharge Elimination System (OPDES) Permit for the above facility. Sherwood opened the Greenhill Materials East Quarry and Rock Crusher Plant in 2003 and has operated the facility as a subsidiary under the name Greenhill Materials, LC since that time.

As a result of some corporate restructuring, Sherwood is now requesting that the name on the referenced permit be changed to "Sherwood Construction Co., Inc., dba Greenhill Materials". We have previously provided you with backup documentation of this name change through our consultant, Superior Environmental Compliance, Inc.

Please contact me if you or your staff has any questions regarding this request.

Sincerely,

David Sherwood
CEO .

RECEIVED
JUN 11 2012
WATER QUALITY DIVISION

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

June 14, 2012

David Sherwood, CEO
Sherwood Construction Co., Inc.
P.O. Box 10
Catoosa, Oklahoma 74015-0010

Re: OPDES Permit No. OKG95T003
Greenhill Materials East, Catoosa, Rogers County, Oklahoma
Facility ID Number I-66001690

Dear Mr. Sherwood:

On June 11, 2012, the DEQ received your letter requesting that the referenced facility name be changed to Sherwood Construction dba Greenhill Materials. As detailed in the letter, Sherwood Construction opened the Greenhill Materials East Quarry and Rock Crusher Plant in 2003 and has operated the facility as a subsidiary under the name Greenhill Materials, LC. No substantial changes have been made to facilities, equipment, operations, personnel or wastewater treatment processes. Certificates of Authority authorizing Sherwood Construction and Greenhill Materials to transact business in the State of Oklahoma were active according to the information available on the website of the Oklahoma Secretary of State.

The DEQ has concluded that all requirements for a change of name on the referenced permit have been satisfied. Therefore, OPDES Permit Authorization OKG95T003 is to be held by Sherwood Construction Co. dba Greenhill Materials, Inc. effective June 14, 2012. The modified first page of the permit is enclosed showing the new company/facility name and date of the name change. Please replace the first page of the permit with the enclosed revised page.

Should you have any questions regarding the permit transfer, please contact the Industrial Permits Section at the letterhead address or telephone (405) 702-8100.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/MH/ab WTC/ST

c. Claremore DEQ Office
Rick Austin, DEQ Regional Manager
Randy Beeson, Superior Environmental Compliance

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR DISCHARGE AND/OR DISPOSAL
UNDER GENERAL PERMIT NO. OKG 950000

AUTHORIZATION NO.: OKG95T003
FACILITY ID NO.: I-66001690

In compliance with Title 27A O.S. §2-6-201 *et seq.* (the OPDES Act), as amended, the Rules of the Department of Environmental Quality promulgated thereunder, and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction Co., dba Greenhill Materials, Inc.
(formerly Greenhill Materials East)
P.O. Box 10
Catoosa, Oklahoma 74015

is hereby authorized to treat and dispose of wastewater from the washing and sorting of rock, sand and/or gravel (SIC Codes 1422, 1423 and 1442), and associated storm water runoff from their facility located at:

SW¼, Section 2 and SE¼ and E½, SW¼, Section 3 and N½ and N½, N½, S½, Section 10 and NW¼, and N½, NE¼ and N½, S½, NE¼, Section 11, Township 20N, Range 14 EIM Rogers County, Oklahoma

The above-referenced facility is also authorized to retain wastewater in three flow-through impoundments (F01, F02, and F03) and one (1) total retention surface impoundment (T01), as described in the Appendix. Wastewater descriptions and classifications are also contained in the Appendix. Surface impoundments shall be maintained in accordance with conditions set forth in General Permit No. OKG95, and in Parts I, II, III and the Appendix hereof.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and DEQ Rules.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This Authorization replaces and/or supersedes DEQ Permit No.OKG95T003 that became effective on April 1, 2006.

This Authorization shall become effective on June 14, 2012.

This Authorization shall expire at midnight, on February 3, 2013.

This is to certify that the proposed wastewater discharges set forth in this Authorization meet the requirements of the Oklahoma Water Quality Standards, as amended, and the DEQ Rules.

Issued this 14th day of June, 2012.

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

November 2, 2012

CERTIFIED MAIL

Environmental Manager
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Re: Application for Renewal of General Permit Authorization OKG95
Sherwood Construction Co. - dba Greenhill Materials, Inc., Rogers County
Permit No: OKG95T003
Facility ID: I-66001690

Dear Environmental Manager:

The above referenced general permit expired on 1/1/2013. The Oklahoma Department of Environmental Quality (ODEQ) requests that you submit a General Permit Authorization application in order to renew your rock, sand, and gravel quarry authorization. An application form is enclosed for your convenience. It should be filled out completely, signed, and returned to this office no later than 1/1/2013.

In accordance with OAC 252:616-3-3 of the DEQ rules, effective July 1, 2011 an application fee is due when submitting an application for a permit authorization. The application fee is non-refundable and is due when an application is filed with the DEQ. A summary is enclosed describing your application fee. Please detach and return the bottom half with your payment.

If this facility is no longer in existence or in use, please contact us regarding a closure plan for the existing permit. If you have already completed and submitted an application please notify us as soon as possible. Thank you very much for your cooperation.

If you have questions regarding this matter, please contact Micheal Jordan at (405) 702-8213.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/MJ/WTC/ab

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION CHARGE

Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, Oklahoma 73101

To: Environmental Manger
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Permit Number:	OKG95T003
Facility ID Number:	I-66001690
Site:	dba Greenhill Materials, Inc.

Description	Charge Code	Type of Permit	Price	Total
Wastewater Application Fee	100872	General Authorization	$100.00	$100.00
			Total Amount Due:	$100.00
			Amount Received:	$0.00
			Amount Due:	$100.00

Please detach and return with payment to:

Oklahoma Department of Environmental Quality
Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, OK 73101

To: Alisha A. Barham (405) 702-8206

From: Environmental Manager
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Wastewater Application Fee Charge Code:	100872
Permit Number:	OKG95T003
Facility ID Number:	I-66001690
Site:	dba Greenhill Materials, Inc.
Date:	
Amount Enclosed:	

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City, State, ZIP+4	

Environmental Manager
Sherwood Construction Co., Inc.
dba Greenhill Materials, Inc.
P.O. Box 10
Catoosa, OK 74015

PS Form 3800, August 2006 See Reverse for Instructions

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- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Environmental Manager
Sherwood Construction Co., Inc.
dba Greenhill Materials, Inc.
[redacted] 10
Catoosa, OK 74015

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X C Karson ☐ Agent ☐ Addressee

B. Received by (*Printed Name*) C KARSON C. Date of Delivery 11-6-12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7012 1010 0002 6527 9850

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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Oklahoma Dept. of Environmental Quality
Water Quality Division
Atten: Alisha A. Barham
P. O. Box 1677
Oklahoma City, OK 73101-1677

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

December 5, 2012

CERTIFIED MAIL

Environmental Manager
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Re: Application for Renewal of General Permit Authorization OKG95
Sherwood Construction Co. - dba Greenhill Materials, Inc., Rogers County
Permit No: OKG95T003
Facility ID: I-66001690

Dear Environmental Manager:

On 11/2/2012, a letter was sent to you requesting an application be filled out for the above referenced permit which will expire on 2/3/2013. The Oklahoma Department of Environmental Quality (ODEQ) requests that you submit a General Permit Authorization application in order to renew your rock, sand, and gravel quarry authorization. An application form is enclosed for your convenience. It should be filled out completely, signed, and returned to this office no later than 1/1/2013.

In accordance with OAC 252:616-3-3 of the DEQ rules, effective July 1, 2011 an application fee is due when submitting an application for a permit authorization. The application fee is non-refundable and is due when an application is filed with the DEQ. A summary is enclosed describing your application fee. Please detach and return the bottom half with your payment.

If this facility is no longer in existence or in use, please contact us regarding a closure plan for the existing permit. If you have already completed and submitted an application please notify us as soon as possible. Thank you very much for your cooperation.

If you have questions regarding this matter, please contact Micheal Jordan at (405) 702-8213.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/MJ/WTC/ab

printed on recycled paper with soy ink

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION CHARGE

Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, Oklahoma 73101

To: Environmental Manger
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Permit Number:	OKG95T003
Facility ID Number:	I-66001690
Site:	dba Greenhill Materials, Inc.

Description	Charge Code	Type of Permit	Price	Total
Wastewater Application Fee	100872	General Authorization	$100.00	$100.00
			Total Amount Due:	$100.00
			Amount Received:	$0.00
			Amount Due:	$100.00

Please detach and return with payment to:

Oklahoma Department of Environmental Quality
Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, OK 73101

To: Alisha A. Barham (405) 702-8206

From: Environmental Manager
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Wastewater Application Fee Charge Code:	100872
Permit Number:	OKG95T003
Facility ID Number:	I-66001690
Site:	dba Greenhill Materials, Inc.
Date:	
Amount Enclosed:	

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Total Postage & Fees	$

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Environmental Manager
Sherwood Construction Co., Inc.
dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

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- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt Is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

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- Print your name and address on the reverse so that we can return the card to you.
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1. Article Addressed to:

Environmental Manager
Sherwood Construction Co., Inc.
dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

Catoosa Oklahoma 74015 DEC 5 USPS

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* [signature] C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service lab) 7012 1640 0000 4051 9657

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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Oklahoma Dept. of Environmental Quality
Water Quality Division
Atten: Alisha A. Barham
P. O. Box 1677
Oklahoma City, OK 73101-1677

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

December 21, 2012

CERTIFIED MAIL

Matt Ritchie, Materials Manager
Sherwood Construction Co. - dba Greenhill Materials, Inc.
P.O. Box 10
Catoosa, OK 74015

Re: OPDES Permit Application for Sherwood Construction Co. - dba Greenhill Materials, Inc.
Rogers County
Permit No.: OKG95T003
Facility ID No.: I-66001690

NOTICE OF DEFICIENCY FOR NON-PAYMENT OF APPLICATION FEE

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit was received by this office on 12/20/2012. In accordance with OAC 252:616-3-3 of the DEQ rules, effective July 1, 2011 an application fee is due when submitting an application for a permit. The application fee is non-refundable and is due when an application is filed with the DEQ. As of this date, we have not received your payment for the application fee. A summary is enclosed describing your application fee. Please detach and return the bottom half with your payment.

Please submit the requested payment by 1/10/2013. The permit application review process is hereby suspended pending receipt of your payment. Once your application fee has been paid, we will continue the administrative review process.

Thank you for your cooperation. If you have any questions concerning this submittal or methods of payment, please contact Alisha A. Barham at (405) 702-8206.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/ab

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION CHARGE

Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, Oklahoma 73101

To: Matt Ritchie, Materials Manager
Sherwood Construction Co. - dba Greenhill Materials, Inc.
P.O. Box 10
Catoosa, OK 74015

Permit Number:	OKG95T003
Facility ID Number:	I-66001690
Site:	Sherwood Construction Co. - dba Greenhill Materials, Inc.

Description	Charge Code	Type of Permit	Price	Total
Wastewater Application Fee	100872	General Authorization	$100.00	$100.00
			Total Amount Due:	$100.00
			Amount Received:	$0.00
			Amount Due:	$100.00

Please detach and return with payment to:

Oklahoma Department of Environmental Quality
Water Quality Division
Permitting Group
P.O. Box 1677
Oklahoma City, OK 73101

To: Alisha A. Barham (405) 702-8206

From: Matt Ritchie, Materials Manager
Sherwood Construction Co. - dba Greenhill Materials, Inc.
P.O. Box 10
Catoosa, OK 74015

Wastewater Application Fee Charge Code:	100872
Permit Number:	OKG95T003
Facility ID Number:	I-66001690
Site:	Sherwood Construction Co. - dba Greenhill Materials, Inc.
Date:	
Amount Enclosed:	

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Matt Ritchie, Materials Manager
Sherwood Construction Co., Inc.
dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

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- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

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1. Article Addressed to:

Matt Ritchie, Materials Manager
Sherwood Construction Co., Inc.
dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Dana Disco ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Dana Disco C. Date of Delivery 1-28-12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
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4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7012 1640 0000 4052 1292

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Oklahoma Dept. of Environmental Quality
Water Quality Division
Atten: Alisha A. Barham
P. O. Box 1677
Oklahoma City, OK 73101-1677

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

January 11, 2013

Matt Ritchie, Materials Manager
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Re: Renewal of General Permit Authorization OKG95
Sherwood Construction Co.-Greenhill Materials Limestone Quarry, Rogers County
Permit No: OKG95T003
Facility ID: I-66001690

Mr. Ritchie:

This letter is to inform you that the Oklahoma Department of Environmental Quality (ODEQ) has prepared a draft General Permit renewal for all Rock, Sand, and Gravel Quarries. This draft will be publicly noticed by the ODEQ. After the public notice process, the ODEQ will issue the new general permit.

Because the General Permit has not yet been renewed, the ODEQ has elected to place all applications on hold until the permit renewal process has been completed. The terms and conditions of your existing OPDES permit will remain in effect until you are issued a new authorization. If you have any questions regarding this matter please contact Marc Hullinger at (405) 702-8203. Thank you for your cooperation.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/MH/WTC/ab

PERMITTING GROUP
PERMIT APPLICATION ROUTING SLIP

F1C2

66001690

Routing Sequence:

Task		Routed to Name	Date	By
Application received (date-stamped) and copied		[redacted]	12-20-12	dd.
Application routed to permitting manager for initial review	Previous Permit Writer: Paul [redacted]	Carol P.	1-9-12	QB
Routed to permit engineering staff		Marc	1-9-12	CMA
Check Information	Check number or CC for Credit Card: 011617	Amount: $100	Date Rcv'd: 1/9/13	Rcv'd By: RB

Facility Name: Sherwood Construction Co., Inc. dba Greenhill Materials **County:** Rogers

Permit Type — **Application Form(s) Required**

(check 1 box)

☐ Municipal Major (OK00)	2M1
☐ Municipal Minor (OK00)	2M2
☐ Municipal Discharging Lagoon (OKG58)	2MG58
☐ Municipal Filter Backwash (OKG38)	2MW
☐ Industrial Major (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Minor (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Surface Impoundment (WD, CW, or W)	1 and 2SI (2L as needed)
☐ Class III Surface Impoundment GP (OKGC3T)	GC3T
☐ Surface Coal Mine GP (OKG04)	G04
☐ Concrete Batch Plant GP – Discharge (OKG11)	G11
☐ Concrete Batch Plant GP – Total Retention (OKG11T)	G11
☐ Mobile Concrete Batch Plant GP – Total Retention (OKG11MT)	G11MT
☐ Mobile Concrete Batch Plant GP – Relocation (OKG11MT)	G11MTR
☐ Hydrostatic Test Project GP (OKG27)	G27
☐ Vehicle Wash GP – Discharge (OKG75)	G75
☐ Vehicle Wash GP – Total Retention (OKG75T)	G75
☐ UST Remediation GP (OKG83)	G83
☐ Rock, Sand, & Gravel Quarry GP – Discharge (OKG95)	G95
☒ Rock, Sand, & Gravel Quarry GP – Total Retention (OKG95T)	G95
☐ Industrial User/Pretreatment (OKP003)	Form 1 and 606-008

(check 1 box) ☐ New Pmt ☒ Renewal ☐ Modification ☐ Resubmission ☐ Pmt Conversion

☐ Relocation

Facility ID No. 66001690

Permit No. OKG95T003

Old Permit No. (for conversions only) _____

Comments:

13-06550
13-06683

Permitting Group Use Only

Superior. Always.

December 17, 2012

Ms. Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, OK 73101-1677

RE: Permit Renewal Application for Sherwood Construction Company, Inc. dba Greenhill Materials, Inc.
Permit No. OKG95T003

Dear Ms. Paden:

Attached please find a permit renewal application for General Permit Authorization OKG95 that we are submitting on behalf of our client, Sherwood Construction Company, Inc. for its Greenhill Materials Quarry located in Rogers County, Oklahoma.

Please contact me (randy.beeson@secompliance.com) or Mr. Matt Ritchie (mattr@greenhillconcrete.com) of Greenhill Materials, Inc. if you or your staff has any questions.

Sincerely,
SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Randal J. Beeson
General Manager

RJB/rjb
Enclosures

Cc:

RECEIVED
DEC 20 2012
WATER QUALITY DIVISION

Phone: 918-739-4780|Mobile: 918-695-8840|Fax: 918-739-4799|P.O. Box 1822 Catoosa, OK 74015|
randy.beeson@secompliance.com |www.superiorenviro.com

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applications in which the applicant does not own all the land subject to the application must notify the owner(s) of leases and/or pipeline right-of-ways. The basis for this requirement is Title 27A of the Oklahoma Statutes, § 2-14-103(9), as described in OAC 252:004-7-13(b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)		
	My application does not involve any land.		My application involves only land owned by me (or applicant business).

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)		Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
X	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		
MY RIGHT TO USE THIS LAND is by:			

X	Lease		Easement		Other, Specify	

LANDOWNER AFFIDAVIT CERTIFICATION				
I, as the applicant or an authorized representative of the applicant, hereby certify that notice to the landowner(s) about the permit application for the facility described below was provided per Option A or B above.				
Company Name	Sherwood Construction Co., Inc. dba Greenhill Materials, Inc.	Facility Name	Greenhill Materials Quarry	
Facility Address or Legal Description.	14701 E. Highway 266, Owasso, OK 74055			
Responsible Official (signature)			Date Signed	12/14/12
Responsible Official (typed)	Matt Ritchie	Title	Materials Manager	

If the landowner notice applies to your application (Option B Above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) Mr. Hank Harbaugh,

(Applicant name) Sherwood Const. Co., Inc., dba Greenhill Materials, Inc has filed a permit application with the Oklahoma Department of Environmental Quality for (Name) Greenhill Materials Quarry facility.

This application involves the land owned by you located at:

Address or Legal Description: 14701 E. Highway 266, Owasso, OK 74055

Signed: _____ Date: _____

FORM 606-OKG95	OKLAHOMA DEQ	APPLICATION FOR THE AUTHORIZATION UNDER GENERAL PERMIT OKG950000 TO DISCHARGE AND/OR DISPOSE OF INDUSTRIAL WASTEWATER AT **ROCK, SAND AND GRAVEL QUARRIES & STONE CUTTING FACILITIES**

A. NAME AND ADDRESS OF FACILITY

1. FACILITY NAME	2. FACILITY ADDRESS
Greenhill Materials Limestone Quarry	14701 E. Highway 266, Owasso, OK 74055

B. FACILITY CONTACT

1. NAME & TITLE	2. PHONE (area code & number)
Matt Ritchie, Materials Manager	918-266-6482

C. MAP

Include a topographic map that will show the locations of all of the following items which are or will be present: outfalls, surface impoundments, septic tank systems, storage facilities, containment devices, monitoring wells, and any water wells within one-half (½) mile of any surface impoundment or septic tank system.

D. SOURCES OF WATER SUPPLY AND AMOUNT USED

Identify all sources of facility water by entering the appropriate letter(s) in the boxes below and then providing the appropriate description(s), as indicated in parentheses. List each source on a separate line. If you have more than one source of a given type, indicate this by entering the letter, followed by two digits (e.g., if your water comes from three wells, the sources would be indicated as G01, G02 and G03). For each source, estimate of the average daily use. Continue on additional sheets if needed.

G = GROUNDWATER WELL	(legal description of well location)
S = SURFACE WATER	(name of stream, river, lake, etc., and legal description of intake)
P = PUBLIC WATER SUPPLY	(name of entity from which water is obtained)
W = WASTEWATER TREATMENT PLANT	(name of entity from which water is obtained)
O = OTHER	(source of supply, and legal description if applicable)

1. SOURCE	2. DESCRIPTION	3. AVG. DAILY USE (GPD)
S	Water recycled from onsite total retention ponds with permitted emergency withdrawal from Bird Creek and an additional pond to the northeast.	960,000
P	Water purchased from the City of Tulsa	10,000

E. INVENTORY OF CHEMICALS AND RAW MATERIALS

List all chemical compounds and raw materials in containers of 55 gallons or more, used in plant operations and stored outside a building (e.g., solvents, cleaning compounds, water treatment chemicals). Describe the storage location and the purpose for which each chemical is used. Continue on additional sheets if needed.

10,000-gallon diesel fuel AST - west side of property - used to fuel mobile mine equipment.
Lubricating oils and greases - maximum of 25 drums - west side of property - used for lubricating mobile equipment and fixed crusher plant equipment.
Stockpiled aggregate materials at various points around the crusher plant.

RECEIVED
DEC 20 2012
WATER QUALITY DIVISION

FOR DEQ USE ONLY

OPDES PERMIT NO.	STATE PERMIT NO.	STATE ID NO.

F. LOCATION

For each industrial surface impoundment and/or septic tank system, provide the ID number, legal description, and indicate if the impoundment or septic tank is located in the 100 year flood plain. If the impoundment(s) or tank(s) have previously been permitted, use the ID number(s) contained in the previous permit. If the impoundment(s) or tanks(s) have not previously been permitted, ID numbers should be assigned using the appropriate letter followed by two digits (e.g., if you have three flow-through impoundments; their ID numbers would be F01, F02 and F03). Each type of impoundment and/or septic tank system should be numbered separately (e.g., if you have one flow-through and one total retention impoundment, their ID numbers would be F01 and T01, rather than F01 and T02). Use the same numbers throughout this form. Continue on additional sheets if needed.

F = FLOW-THROUGH SURFACE IMPOUNDMENT
T = TOTAL RETENTION SURFACE IMPOUNDMENT
S = SEPTIC TANK SYSTEM WITHOUT LATERAL LINES
Z = SEPTIC TANK SYSTEM WITH LATERAL LINES

1. ID NO.	2. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)	3. FLOOD PLAIN (yes or no)
F01	NE/4, NW/4, SE/4, Section 10, T20N, R14E	Yes
F02	NE/4, NW/4, SE/4, Section 10, T20, R14E	Yes
F03	NE/4, NW/4, SE/4, Section 10, T20N, R14E	Yes
T01	NW/4, NW/4, SE/4, Section 10, T20N, R14E	Yes
Z01	NE/4, NE/4, SW/4, Section 10, T20N, R14E	Yes

G. FLOWS, SOURCES OF WASTE, AND TREATMENT

1. Attach a line drawing showing the flow of wastes or wastewaters through the facility unit processes. Indicate sources of intake water, chemicals, raw materials, and other sources of wastes. Label all unit processes or operations that contribute wastes or wastewater, including production areas, waste treatment units, and sources of blowdown or backwash. Indicate disposal pathways of the wastes and wastewaters, including evaporation, recycle, discharge, solid waste storage, septic tanks, impoundments, land application, landfill or other pathways. Provide a water balance (measured or estimated) on the line drawing that shows average flows between sources, unit processes and disposal pathways.

2. For each impoundment and/or septic tank system, provide a description of: (1) All operations and other sources of pollution which contribute waste to the impoundment or tank, including but not limited to process wastes, sanitary wastes, cooling water and stormwater; and (2) The average, maximum and minimum flows contributed by each operation or other source of pollution. Continue on additional sheets if needed.

a. ID NO.	b. OPERATION(S)/SOURCE(S)	c. DAILY FLOW (GPD)		
		(1) AVERAGE	(2) MAXIMUM	(3) MINIMUM
F01	Storm water runoff, flows from crusher plant and haul roads	989,635	1,000,000	100,000
F02	Flow from F01	989,635	1,000,000	100,000
F03	Flow from F02	989,635	1,000,000	100,000
T01	Flow from F03	989,635	1,000,000	100,000
Z01	Sanitary flow from employee restrooms	250	350	200

3. List all wastes which are or will be cootained in the surface impoundment(s) and/or septic tank system(s) (e.g., lubricants, additives, bactericides; detergents, softeners) and their sources. Include all wastes which have the potential to be contained in the impoundment(s) or tank(s) due to spills, bypasses, or unit failures (e.g., raw materials, oils and greases, solvents or product). Also indicate whether you possess any chemical analysis of the wastes. Continue on additional sheets if needed.

a. ID NO.	b. WASTE/POLLUTANT	c. SOURCE	d. WASTEWATER ANALYTICAL DATA
F01, F02, F03	Particulates, sediment	Haul roads, stockpiles, crusher plant	Yes - Limited Data - Attached
T01	Particulates	Haul roads, stockpiles via F01, F02	No
Z01	BOD5	Employee restrooms	No

4. For each impoundment and/or septic tank, list the actual or engineering estimate of the volume of sludge generated annually. Indicate whether the sludge will be periodically removed from the impoundment or tank (give frequency of removal) or will accumulate in the impoundment or tank as a site of final disposal. Also indicate whether you possess analytical data on the sludge generated in each impoundment. Continue on separate sheets if necessary.

a. ID NO.	b. FREQUENCY OF REMOVAL/FINAL DISPOSAL SITE	c. SLUDGE ANALYTICAL DATA	d. VOLUME
F01	Weekly. Bermed area east of quarry*	No	~1,200 tons/week of sediment is removed from Ponds F01, F02 F03.
F02	Weekly. Bermed area east of quarry*	No	
F03	Weekly. Bermed area east of quarry*	No	
T01	Sediment is seldom, if ever, removed from this pond.	No	
	*After air drying, this material is sold as general fill		

5. Describe the treatment purpose of each cell, impoundment, or tank (e.g., settling, aeration, evaporation, or final disposal). List any chemicals and equipment used for each treatment method. Also list the treatment operation parameters (inlet concentration, goal concentration, and detention time) for each impoundment or tank. Continue on additional sheets if necessary.

a. ID NO.	b. TREATMENT				
	(1) DESCRIPTION	(2) CHEMICALS/ EQUIPMENT	(3) INLET CONC. (units)	(4) GOAL CONC. (units)	(5) DETENTION TIME (units)
F01	Primary settling pond - particulates	None	7.1% - 30 TPH	NA	0.51 day
F02	Secondary settling pond - particulates	None	0.71% - 3 TPH	NA	0.15 day
F03	Tertiary settling pond - particulates	None	0.28% - 1.2 TPH	NA	0.93 day
T01	Total retention pond	None	0.071 - 0.3 TPH	NA	6.08 days

H. OUTFALL LOCATION

1. For each outfall, list the legal description (¼, ¼, ¼, Section, Township, Range) to the nearest 10 acres and the name of the receiving water.

a. Outfall No.	b. Legal Description	c. Receiving Water
NA	There are no outfalls associated with this operation. Water is recycled from Pond T01 to the crusher plant for dust suppression and for production of manufactured sand.	

2. For each outfall, list the latitude and longitude:

a. Outfall No.	b. Latitude	c. Longitude
NA	There are no outfalls associated with this operation.	

I. IMPOUNDMENT INFORMATION

1. For each impoundment, attach plans sufficient to define the following design parameters: (1) Length and width at top and bottom; (2) Total depth; (3) Designed minimum and maximum freeboard; (4) Interior and exterior side-slopes (ratio of horizontal to vertical distances); and (5) Inlet and outlet structures.
2. For each impoundment, list the holding capacity in gallons (assuming a minimum freeboard) and the dimensions in feet. The following abbreviations are used in the table to indicate the various impoundment dimensions.

BW = BOTTOM WIDTH BL= BOTTOM LENGTH TW= TOP WIDTH TL = TOP LENGTH	D = DEPTH F = MINIMUM FREEBOARD MF = MAXIMUM FREEBOARD	IS = INTERIOR SIDE-SLOPE RATIO (Horiz:Vert) ES = EXTERIOR SIDE-SLOPE RATIO (Horiz:Vert)

a. ID NO.	b. HOLDING CAPACITY (gallons)	c. DIMENSIONS								
		(1) BW (ft)	(2) BL (ft)	(3) TW (ft)	(4) TL (ft)	(5) D (ft)	(6) F (ft)	(7) MF (ft)	(8) IS (ratio)	(9) ES (ratio)
F01		0	66	54	126	10	3	4	3:1	NA
F02		0	0	33	42	12	3	4	3:1	NA
F03		0	116	58	176	12	3	4	3:1	NA
T01		70	144	172	246	17	3	4	3:1	NA

3. In the table below, list the type of liner material (e.g., native soil, compacted clay, flexible membrane, composite, soil/bentonite, concrete, or alternative) to be installed or currently in use. Definitive information and justification is required for alternative liner systems. List the thickness (in inches, feet, or mils; as appropriate) and permeability rate (in inches/hour) or hydraulic conductivity (in centimeters/second), as appropriate, of each liner as proposed or as built. Also list the type of soil (series name and USDA texture) underlying the impoundment. Continue on additional sheets if necessary.

a. ID NO.	b. LINER TYPE	c. THICKNESS (inches)	d. HYDRAULIC CONDUCTIVITY (PERMEABILITY) (cm/sec or in/hr, as appropriate)	e. SOIL TYPE	
				(1) SERIES NAME	(2) USDA TEXTURE
F01	Native soil	80+	0.6 to 2.0 in/hr	Verdigris clay loam, 0-1%	clay loam
F02	Native soil	80+	0.6 to 2.0 in/hr	Verdigris clay loam, 0-1%	clay loam
F03	Native soil	80+	0.6 to 2.0 in/hr	Verdigris clay loam, 0-1%	clay loam
T01	Native soil	80+	0.6 to 2.0 in/hr	Verdigris clay loam, 0-1%	clay loam
Z01	Native soil	80+	0.6 to 2.0 in/hr	Verdigris clay loam, 0-1%	clay loam

4. Briefly describe the rationale used to select the proposed or currently used liner systems. Include the date of construction, along with a discussion of the physical and chemical properties of liner materials which are indicative of the waste/liner compatibility an the liner's effectiveness as a physical barrier between the waste and groundwater. References can be made to similar facilities, related research, or trade organization guidelines. Continue on additional sheets if necessary.

Sediment pond system was constructed prior to placing this facility in operation in 2003. Wastewater is Class 3 and is recycled for onsite use. Given the fine texture of the native soils and wastewater classification, these ponds are considered adequate for their purpose.

J. GROUNDWATER INFORMATION

For each surface impoundment and/or land application site, list the depth to groundwater, the direction of groundwater flow, and the legal description of each well used to determine groundwater information. Continue on additional sheets if necessary.

1. ID NO.	2. DEPTH TO WATER (feet)	3. DIRECTION OF FLOW	4. LEGAL DESCRIPTION OF WELL
NA			OWRB records indicate no water supply wells within 1/2 mile of these impoundments (See attached)

K. WELL INFORMATION

1. For each monitoring well or water well within ½ mile of any impoundment and/or septic tank system, list in the table below the total depth, depth of completion, elevation, static water level and legal description of well. Continue on additional sheets if necessary.
2. For each well, attach the well log or drillers log, if available. If no water wells are found within ½ mile, attach a copy of the OWRB letter indicating no wells were found in their records search.

a. ID NO.	b. TOTAL DEPTH	c. DEPTH OF COMPLETION	d. ELEVATION	e. STATIC WATER LEVEL	f. LEGAL DESCRIPTION OF WELL
NA					

L. DEQ LANDOWNER NOTIFICATION AFFIDAVIT

1. Does applicant own all land subject to the application:	Yes		No	X

If yes, proceed to section M. If no, proceed to part 2 of this section.

2. Application(s) for which the applicant does not own all the land subject to the application must notify the owner(s) of leases and/or pipeline right-of-ways that a permit application has been submitted to the DEQ. The basis for this requirement is OAC 252:004-7-13(b). DEQ Form 100-810 shall be used for this purpose and is available on the DEQ web page.

M. CERTIFICATION (see instructions)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. NAME & OFFICIAL TITLE (type or print)	2. SIGNATURE	3. DATE SIGNED
Matt Ritchie, Materials Manager		12/17/12

OWRB the water agency

theoklahomawaterresourcesboard

Download Results to CSV (ALT-D) | New Search (ALT-N) | Graph Water Levels (ALT-G) | Save Wells for Graphing (ALT-W)

View Drought Monitoring Map and Water Level Graphs

Help & Search Results Key

Search Results for 11, 20N, 14EI

Displaying Results 1 through 2 of 2.

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld	WL Graph
52167	Rogers	Arkansas Valley Petroleum	SESESE	11-20N-14EI	05/15/00	Monitoring Well	Water Quality	10.5	n/a	n/a	n/a	n/a	☐
52168	Rogers	Arkansas Valley Petroleum	SESESE	11-20N-14EI	05/15/00	Monitoring Well	Water Quality	14	n/a	n/a	n/a	n/a	☐

Help & Search Results Key

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consists of information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in the area, which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OWRB. A field survey may need to be conducted to verify the presence or absence of other water wells.

The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as reported by the well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that corrections to the database may be made.

contact OWRB | disclaimer

Visit OK.gov, the Official Website of the State of Oklahoma.

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OWRB
the water agency

the oklahoma water resources board

No Results

We have completed the water well search within your area of interest, '10, 20N, 14E' in Oklahoma and no water wells records were found in this area.

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consists of information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in the area, which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OWRB. A field survey may need to be conducted to verify the presence or absence of other water wells.
The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as reported by the well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that corrections to the database may be made.

contact OWRB | disclaimer

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Greenhill Materials, LC East Quarry, Rogers County, OK

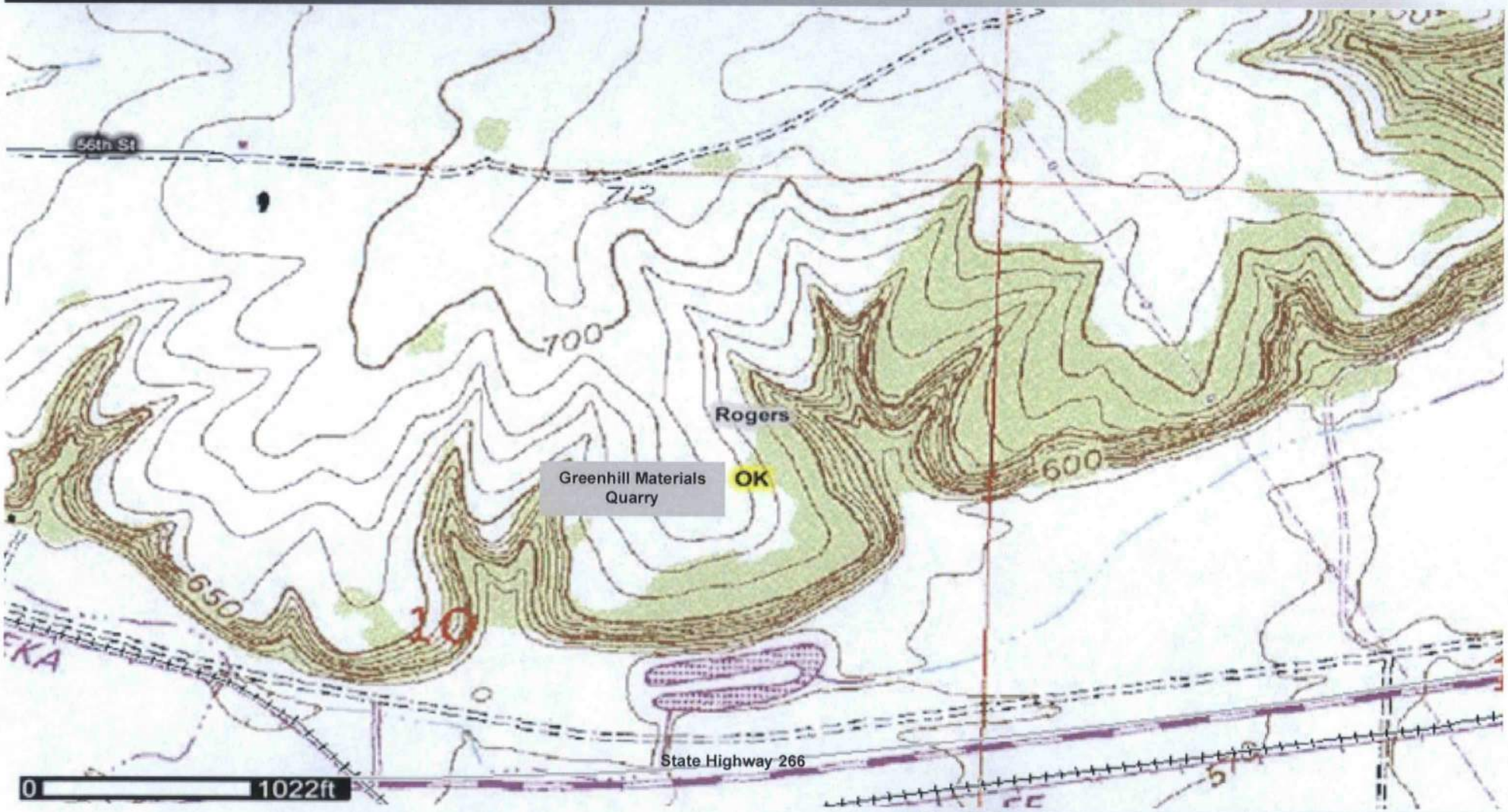


Figure 1

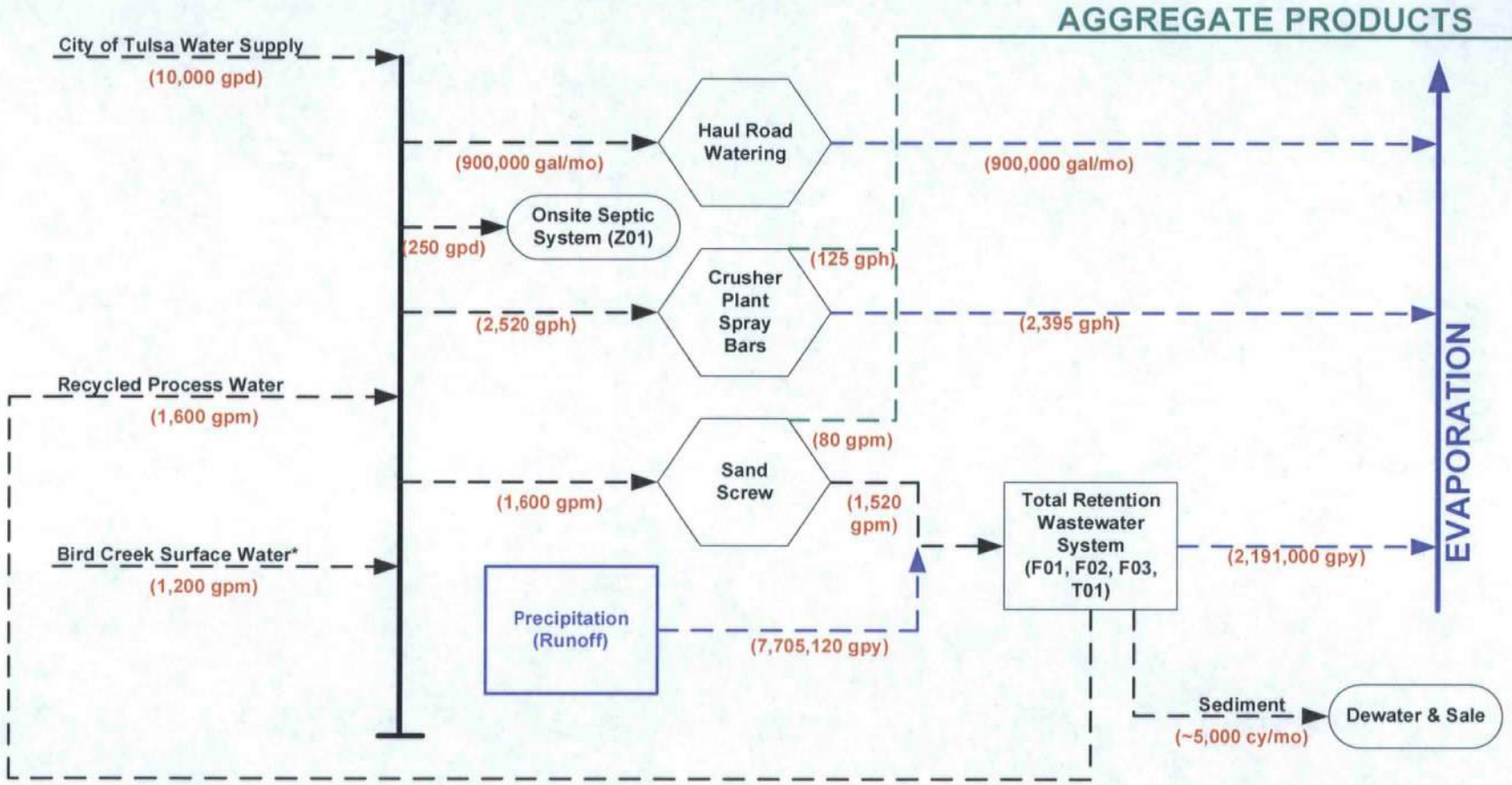
Site Topo Map

April 15, 2011

N

F02
36.81
44.13
54.90
60.80
F01
127.01
47.34
48.54
110.91
F03
55.69
56.44
F03
69.77
172.47
245.64
T01
GREENHILL MATERIALS QUARRY
TOTAL RETENTION WASTEWATER FACILITY

Greenhill Materials Water Usage



*Backup water supply obtained through OWRB surface water permit. Permit is for 75 acre-feet/year. To date in 2012, 69.6 acre-feet of water has been obtained from this source.

SUPERIOR ENVIRONMENTAL COMPLIANCE, INC.

Line Drawing

November 29, 2012

N

Greenhill Materials Quarry Pond Calculations										
Pond	TW (ft)	TL (ft)	BW* (ft)	BL* (ft)	D (ft)	Mean Area (sf)	V (cf)	V (gal)	Mean Daily Flow (gal)	Detention Time (days)
F01	54	126	0	66	10	6,804	68,040	508,939	989,635	0.51
F02	37	44	0	0	12	1,628	19,536	146,129	989,635	0.15
F03	58	176	0	116	12	10,208	122,496	916,270	989,635	0.93
T01	172	246	70	144	17	47,352	804,984	6,021,280	989,635	6.08
								Total Detention Time		**7.67**

*Based on Approximately 3:1 Interior Sideslopes

GREENHILL MATERIALS

2012

LOAD REPORT FOR WATER USAGE ON HAULROADS

Gallons Used

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	0	20000	10000	0	Rain	80,000	0	130,000	0	60,000	50,000	
2	0	Rain	10000	20000	20000	0	120,000	90,000	0	70,000	60,000	
3	20000	Rain	0	20000	50000	0	80,000	100,000	0	70,000	0	
4	20000	0	0	30000	50000	Rain	0	0	80,000	50,000	0	
5	20000	0	20000	30000	0	70,000	110,000	0	40,000	50,000	70,000	
6	30000	0	50000	20000	0	80,000	120,000	80,000	60,000	30,000	50,000	
7	0	10000	50000	0	40000	80,000	0	70,000	40,000	0	60,000	
8	0	10000	Rain	0	50000	90,000	0	130,000	0	40,000	50,000	
9	10000	20000	0	30000	40000	80,000	90,000	100,000	0	60,000	60,000	
10	10000	20000	0	30000	40000	0	90,000	80,000	50,000	50,000	50,000	
11	20000	0	Rain	Rain	50000	90,000	90,000	0	70,000	40,000	0	
12	30000	0	10000	Rain	0	80,000	80,000	0	110,000	Rain	Rain	
13	30000	Snow	20000	20000	0	50,000	110,000	60,000	70,000	Rain	30,000	
14	0	Wet	20000	0	50000	20,000	0	90,000	Rain	0	20,000	
15	0	Wet	40000	0	70000	20,000	0	90,000	0	20,000	30,000	
16	20000	10000	30000	40000	80000	0	110,000	80,000	0	30,000	40,000	
17	20000	10000	0	40000	100000	0	100,000	60,000	Rain	50,000	Rain	
18	30000	20000	0	50000	60000	50,000	110,000	0	20,000	50,000	0	
19	30000	0	Rain	40000	0	100,000	120,000	0	40,000	60,000	10,000	
20	20000	20000	Rain	60000	0	110,000	100,000	50,000	60,000	0	20,000	
21	20000	20000	Rain	20000	90000	Rain	0	70,000	80000	0	20,000	
22	0	30000	Rain	0	110000	80,000	0	100,000	0	50,000	0	
23	10000	30000	Wet	40000	120000	0	100,000	100,000	Rain	60,000	0	
24	30000	20000	0	60000	90000	0	110,000	80,000	40,000	70,000	0	
25	Rain	0	0	50000	80000	110,000	110,000	0	40,000	30,000	0	
26	Rain	0	20000	50000	0	100,000	120,000	0	Rain	40,000	10,000	
27	10000	10000	30000	70000	0	110,000	130,000	80,000	Wet	20,000	30,000	
28	0	10000	30000	40000	0	100,000	0	80,000	20,000	0		
29	0	Rain	20000	Rain	80000	100,000	0	90,000	0	30,000		
30	20000		30000	Rain	80000	0	110,000	90,000	0	50,000		
31	30000				50000	0	110,000	Rain		50,000		
	430,000	260,000	390,000	760,000	1,400,000	1,600,000	2,220,000	1,900,000	820,000	1,130,000	660,000	

Bayne Mineral Systems Slurry Measurements

Greenhill Materials Co.

14701 E. 46th St. North, Owasso OK

Date: October 24, 2012

Plant Sampling Information:

Plant running normal tonnages and flows

	Left Weir	Back Weir	Right Weir
Weir length in feet	5.75	14.67	5.75
Water depth in inches	1 1/4	1 1/4	2
Flow Rate in GPM	290	740	587

Ore SG	2.69
Specific Gravity	% Solids
1.047	7.1%

TPH	GPM	S.G	% Solids
29.9	1,617	1.05	7.10

Material Samples		1,617GPM	
Sample	Net Weight	% Solids	TPH
Weight 1	1,036	5.50	22.9
Weight 2	1,028	4.30	17.8
Weight 3	1,052	7.90	33.4
Weight 4	1,072	10.70	46.1
Average	1,047	7.10	29.90

Sieve Size	Weight of Material Retained	Approx. TPH
50	2	0.73
100	8	2.93
200	22	8.04
270	6	2.19
minus 270	104	16.10

Bayne Mineral Systems Slurry Measurements

Slurry to Pond	
Flow Rate (GPM)	1,617
Tons/Hour Material	29.90
Slurry % Solids	7.1%
Slurry SG	1.046

Notes:
Above information is from field test
Flow from screw is 1,617 GPM resulting in 29.9 TPH to pond
Sand is in spec and where Customer wants it
Majority of fines is not useable in sand product
Sample taken to be sent to McLanahan for lab test

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Rogers County, Oklahoma

Greenhill Materials Company, Inc.

May 2, 2011

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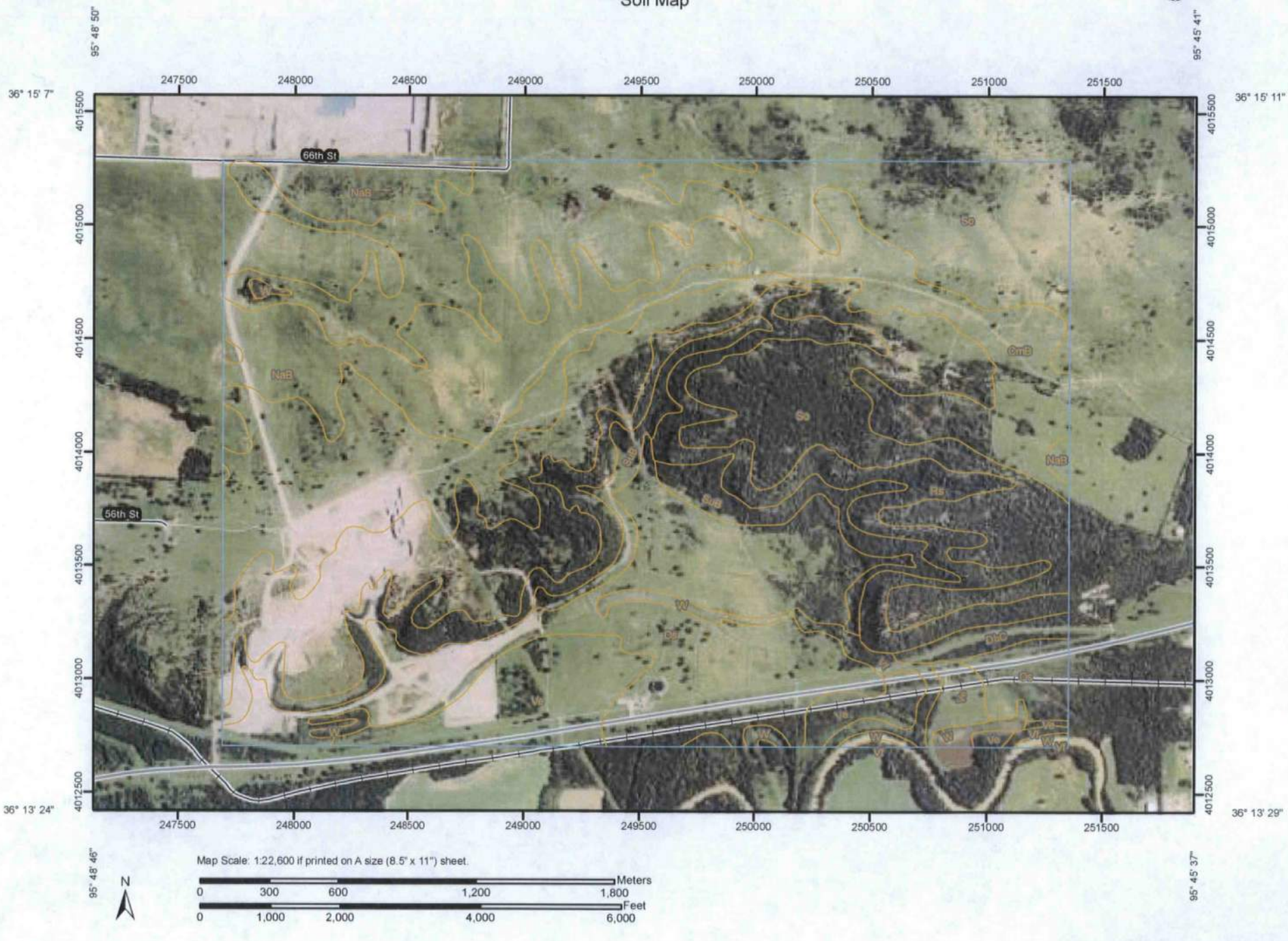
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Soil Map


95° 48' 50"
95° 45' 41"
36° 15' 7"
36° 15' 11"
247500
248000
248500
249000
249500
250000
250500
251000
251500
4015500
4015000
4014500
4014000
4013500
4013000
4012500
66th St
56th St
NaB
So
OmB
Ra
W
36° 13' 24"
36° 13' 29"
95° 48' 46"
95° 45' 37"
Map Scale: 1:22,600 if printed on A size (8.5" x 11") sheet.
N
Meters
0
300
600
1,200
1,800
Feet
0
1,000
2,000
4,000
6,000

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features
- Cities

Water Features
- Oceans
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:22,600 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 15N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rogers County, Oklahoma
Survey Area Data: Version 7, Dec 30, 2009

Date(s) aerial images were photographed: 7/15/2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Rogers County, Oklahoma (OK131)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
CmB	Claremore silt loam, 0 to 3 percent slopes	565.1	24.2%
DbC	Dennis-Bates complex, 3 to 5 percent slopes	18.6	0.8%
NaB	Catoosa silt loam, 1 to 3 percent slopes	293.8	12.6%
Os	Osage clay, 0 to 1 percent slopes, occasionally flooded	345.3	14.8%
Rs	Hector-Endsaw complex, 20 to 35 percent slopes	221.9	9.5%
So	Shidler stony silty clay loam, 3 to 20 percent slopes	627.4	26.8%
SuB	Apperson and Summit soils, 1 to 3 percent slopes	76.8	3.3%
Ve	Verdigris clay loam, 0 to 1 percent slopes, occasionally flooded	133.6	5.7%
Vf	Verdigris silty clay loam, 0 to 2 percent slopes, frequently flooded	24.3	1.0%
W	Water	32.2	1.4%
Totals for Area of Interest		**2,339.0**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the

contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Rogers County, Oklahoma

CmB—Claremore silt loam, 0 to 3 percent slopes

Map Unit Setting

Elevation: 500 to 1,500 feet
Mean annual precipitation: 33 to 45 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 190 to 225 days

Map Unit Composition

Claremore and similar soils: 85 percent
Minor components: 15 percent

Description of Claremore

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Parent material: Loamy residuum weathered from limestone

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 10 to 22 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.0 inches)

Interpretive groups

Land capability (nonirrigated): 3s
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Typical profile

0 to 10 inches: Silt loam
10 to 16 inches: Silty clay loam
16 to 19 inches: Silty clay loam
19 to 24 inches: Bedrock

Minor Components

Shidler

Percent of map unit: 5 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Very shallow (Eastern) PE 62-80 (R112XY098OK)

Catoosa

Percent of map unit: 5 percent
Landform: Hillslopes on hills

Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Apperson

Percent of map unit: 5 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

DbC—Dennis-Bates complex, 3 to 5 percent slopes

Map Unit Setting

Elevation: 500 to 1,360 feet
Mean annual precipitation: 35 to 46 inches
Mean annual air temperature: 57 to 65 degrees F
Frost-free period: 170 to 235 days

Map Unit Composition

Dennis and similar soils: 50 percent
Bates and similar soils: 40 percent
Minor components: 10 percent

Description of Dennis

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Clayey residuum weathered from shale

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 12 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: High (about 11.0 inches)

Interpretive groups

Land capability (nonirrigated): 3e
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Typical profile

0 to 14 inches: Silt loam
14 to 18 inches: Loam
18 to 34 inches: Clay loam
34 to 62 inches: Clay

Description of Bates

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum weathered from sandstone and shale

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: 20 to 40 inches to paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 6.7 inches)

Interpretive groups

Land capability (nonirrigated): 3e
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Typical profile

0 to 16 inches: Loam
16 to 30 inches: Clay loam
30 to 36 inches: Gravelly clay loam
36 to 40 inches: Bedrock

Minor Components

Collinsville

Percent of map unit: 5 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Shallow prairie (Central) PE 62-80 (R112XY083OK)

Parsons

Percent of map unit: 5 percent
Landform: Paleoterraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

NaB—Catoosa silt loam, 1 to 3 percent slopes

Map Unit Setting

Elevation: 500 to 1,200 feet
Mean annual precipitation: 33 to 45 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 190 to 225 days

Map Unit Composition

Catoosa and similar soils: 85 percent
Minor components: 15 percent

Description of Catoosa

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Silty residuum weathered from limestone

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 7.3 inches)

Interpretive groups

Land capability (nonirrigated): 3e
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Typical profile

0 to 14 inches: Silt loam
14 to 38 inches: Silty clay loam
38 to 60 inches: Bedrock

Minor Components

Claremore

Percent of map unit: 8 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex

Across-slope shape: Convex
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Apperson
Percent of map unit: 7 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

Os—Osage clay, 0 to 1 percent slopes, occasionally flooded

Map Unit Setting
Elevation: 500 to 1,000 feet
Mean annual precipitation: 37 to 47 inches
Mean annual air temperature: 55 to 64 degrees F
Frost-free period: 190 to 230 days

Map Unit Composition
Osage and similar soils: 90 percent
Minor components: 10 percent

Description of Osage

Setting
Landform: Flood-plain steps
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Clayey alluvium

Properties and qualities
Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water capacity: Moderate (about 9.0 inches)

Interpretive groups
Land capability (nonirrigated): 5w
Ecological site: Heavy bottomland PE 62-80 (R112XY045OK)

Typical profile
0 to 22 inches: Clay
22 to 60 inches: Clay

Minor Components

Verdigris

Percent of map unit: 10 percent
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Loamy bottomland PE 62-80 (R112XY050OK)

Rs—Hector-Endsaw complex, 20 to 35 percent slopes

Map Unit Setting

Elevation: 400 to 2,400 feet
Mean annual precipitation: 22 to 50 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 175 to 240 days

Map Unit Composition

Hector and similar soils: 55 percent
Endsaw and similar soils: 40 percent
Minor components: 5 percent

Description of Hector

Setting

Landform: Mountain slopes
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum weathered from sandstone

Properties and qualities

Slope: 20 to 35 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.7 inches)

Interpretive groups

Land capability (nonirrigated): 7e
Ecological site: Savannah breaks PE 72-74 (R118AY079OK)

Typical profile

0 to 6 inches: Stony fine sandy loam
6 to 15 inches: Gravelly fine sandy loam
15 to 25 inches: Bedrock

Description of Endsaw

Setting

Landform: Hillslopes on hills
Landform position (two-dimensional): Backslope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy colluvium and/or clayey residuum weathered from shale

Properties and qualities

Slope: 20 to 35 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: About 24 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability (nonirrigated): 7e
Ecological site: Savannah breaks PE 72-74 (R118AY079OK)

Typical profile

0 to 8 inches: Stony fine sandy loam
8 to 42 inches: Gravelly silty clay
42 to 60 inches: Bedrock

Minor Components

Rock outcrop

Percent of map unit: 5 percent
Landform: Hillslopes on hills
Down-slope shape: Convex
Across-slope shape: Convex

So—Shidler stony silty clay loam, 3 to 20 percent slopes

Map Unit Setting

Elevation: 500 to 1,500 feet
Mean annual precipitation: 33 to 45 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 190 to 225 days

Map Unit Composition

Shidler and similar soils: 90 percent
Minor components: 10 percent

Description of Shidler

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum weathered from cherty limestone

Properties and qualities

Slope: 3 to 20 percent
Depth to restrictive feature: 4 to 20 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to low (0.00 to 0.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.2 inches)

Interpretive groups

Land capability (nonirrigated): 7s
Ecological site: Very shallow (Eastern) PE 62-80 (R112XY098OK)

Typical profile

0 to 8 inches: Stony silty clay loam
8 to 10 inches: Bedrock

Minor Components

Claremore

Percent of map unit: 5 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Catoosa

Percent of map unit: 3 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Apperson

Percent of map unit: 2 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

SuB—Apperson and Summit soils, 1 to 3 percent slopes

Map Unit Setting

Elevation: 500 to 1,500 feet
Mean annual precipitation: 28 to 47 inches
Mean annual air temperature: 57 to 65 degrees F
Frost-free period: 190 to 230 days

Map Unit Composition

Apperson and similar soils: 55 percent
Summit and similar soils: 40 percent
Minor components: 5 percent

Description of Apperson

Setting

Landform: Interfluves
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Calcareous clayey residuum weathered from limestone

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to low (0.00 to 0.00 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Available water capacity: Moderate (about 7.5 inches)

Interpretive groups

Land capability (nonirrigated): 3e
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

Typical profile

0 to 14 inches: Silty clay loam
14 to 22 inches: Silty clay
22 to 36 inches: Silty clay
36 to 47 inches: Silty clay
47 to 60 inches: Bedrock

Description of Summit

Setting

Landform: Interfluves

Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Clayey colluvium and/or residuum weathered from shale

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 40 to 60 inches to lithic bedrock
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Available water capacity: Moderate (about 7.8 inches)

Interpretive groups

Land capability (nonirrigated): 2e
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

Typical profile

0 to 7 inches: Silty clay loam
7 to 13 inches: Silty clay loam
13 to 21 inches: Clay
21 to 89 inches: Clay
89 to 116 inches: Clay

Minor Components

Claremore

Percent of map unit: 2 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Newtonia

Percent of map unit: 2 percent
Landform: Hillslopes on hills
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: Loamy prairie (Northeast) PE 62-80 (R112XY059OK)

Woodson

Percent of map unit: 1 percent
Landform: Paleoterraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Claypan prairie PE 62-80 (R112XY010OK)

Ve—Verdigris clay loam, 0 to 1 percent slopes, occasionally flooded

Map Unit Setting

Elevation: 500 to 1,000 feet
Mean annual precipitation: 37 to 47 inches
Mean annual air temperature: 55 to 64 degrees F
Frost-free period: 190 to 230 days

Map Unit Composition

Verdigris and similar soils: 90 percent
Minor components: 10 percent

Description of Verdigris

Setting

Landform: Flood-plain steps
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty alluvium

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water capacity: High (about 11.6 inches)

Interpretive groups

Land capability (nonirrigated): 2w
Ecological site: Loamy bottomland PE 62-80 (R112XY050OK)

Typical profile

0 to 16 inches: Clay loam
16 to 80 inches: Silty clay loam

Minor Components

Osage

Percent of map unit: 10 percent
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Heavy bottomland PE 62-80 (R112XY045OK)

Vf—Verdigris silty clay loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

Elevation: 500 to 1,000 feet
Mean annual precipitation: 38 to 47 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 190 to 230 days

Map Unit Composition

Verdigris and similar soils: 100 percent

Description of Verdigris

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty alluvium

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water capacity: High (about 12.0 inches)

Interpretive groups

Land capability (nonirrigated): 5w
Ecological site: Loamy bottomland PE 62-80 (R112XY050OK)

Typical profile

0 to 17 inches: Silty clay loam
17 to 80 inches: Silty clay loam

W—Water

Map Unit Setting

Elevation: 250 to 4,000 feet
Mean annual precipitation: 22 to 48 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 190 to 240 days

Map Unit Composition
Water: 100 percent

Description of Water

Interpretive groups
Land capability (nonirrigated): 8

Typical profile
0 to 80 inches: Water

Industrial ID: 66001690 Date: 01-55-49PM 04-29-2013

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT - INDUSTRIAL WASTEWATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Industrial ID	Permit No.	County	SIC
66001690		ROGERS	

Name of Facility	Address	City	Zip
SHERWOOD CONSTRUCTION CO., INC.	P.O. BOX 10	CATOOSA	74015

Name of Owner	Address	City	Zip

Name of Contact	Position	Telephone
		(918) 274-6560

The below listed rules are cited in the Oklahoma Administrative Code, Title 252, except when noted. ** These rules are cited in 27A O.S.

SECTIONS	RULES	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
TOTAL RETENTION AND DISCHARGE PERMITS	616-3-1	**Facility is as described in permit**	*01	☐	
	616-3-1	**All discharge outfalls and surface impoundments permitted**	*02	☐	
	616-7-1	Treatment system properly operated and maintained	03	☐	
	606-1-3(b)(3)(W)	**Bypasses or overflows reported**	*04	☐	
	** 2-6-205(A)	**Bypasses or overflows corrected**	*05	☐	
	** 2-6-501	Wastes from treatment structures properly disposed	06	☐	
	** 2-6-501	Waste hauler and disposal site recorded	07	☐	
	616-7-1	Impoundment dikes properly constructed	08	☐	
	616-7-1	Impoundment freeboard is as permitted	09	☐	
	616-7-1	Dikes or liners properly maintained	10	☐	
	616-5-1	Facility and/or impoundment access restricted	11	☐	
	616-5-1	Facility and/or impoundment marked with signs listing facility operator, emergency telephone # and permit #	12	☐	
DISCHARGE PERMITS	606-11-2	**Support laboratory is certified by DEQ** Samples collected by: ____ (Contract laboratory) ____ (Facility) Samples analyzed by: ____ (Contract laboratory) ____ (Facility)	*13	☐	
	606-11-2	Approved analytical procedures and equipment used	14	☐	
	606-1-3(b)(3)(W)	QA/QC records maintained	15	☐	
	606-11-4(b)	SMRs/DMRs for the last three years are on file	16	☐	
	606-1-3(b)(3)(W)	**Noncompliance reports submitted when violations occur**	*17	☐	
	606-11-4	**SMR/DMR data matches laboratory results sheets**	*18	☐	
	606-11-2	Laboratory results sheets have date received, analysis date, time and method used, analyst and results	19	☐	
	606-11-5	**Flow measurement methods adequate**	*20	☐	
	606-11-5	Correct sampling location	21	☐	
	606-11-2	Correct sampling methods used	22	☐	
	606-11-2	Sample holding times not exceeded	23	☐	

DEQ FORM # 616-530B (Rev. 08/2005)

Industrial ID: 66001690 Date: 01-55-49PM 04-29-2013

606-11-2	Calibration records for instruments and equipment maintained	24	☐
606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25	☐
606-5-1	No visible oil sheen (violation of OWQS)	26	☐
606-5-1	No visible foam or solids (violation of OWQS)	27	☐

List effluent treatment/control structures in sequence from source to final outfall or total retention impoundment

Total Retention Impoundments F01, F02, F03, T01 Facility is in the process of permit modification.

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist: Stratton, Robin Employee ID#: 6575

Environmental Specialist Signature

Copy received by: Title:

Copy Received By Signature

FACILITY STATUS:

- ☐ 28 : Repeat Violation(s)
- ☐ 29 : Under current enforcement action
- ☑ 30 : No Violation Noted

Date: 4/29/2013

Total number of items marked: 0

Number of critical items marked: 0

PURPOSE OF VISIT

- ☑ 31 : Compliance Monitoring
- ☐ 32 : Complaint No.
- ☐ 33 : Follow-Up
- ☐ 34 : Emergency/Disaster

ACTION

- ☑ 35 : None
- ☐ 36 : Notice to Comply by: date
- ☐ Next Inspection
- ☐ 37 : Refer to WQD

TYPE CLASS

- ☑ 74 : R Lagoon, Total Retention
- ☐ 74 : L Land Application
- ☐ 74 : D Discharging Lagoon (maj)
- ☐ 74 :D1 Discharging Lagoon (min)

ITEM NO.	CRITICAL ITEMS
01	Treatment of industrial wastewater at an unpermitted facility.
02	Discharge from additional outfalls or construction of additional surface impoundments not included in facility's permit.
04	Failure to orally report all bypasses within twenty-four hours and/or failure to file a written report within five days.
05	Failure to prevent bypasses of treatment units or overflows from surface impoundments.
13	Analyses to determine compliance with NPDES/OPDES permit performed at laboratory not certified by DEQ.
17	Failure to submit noncompliance reports following violations of the facility's NPDES/OPDES permit limits and conditions.
18	Reporting of effluent quality data on SMRs that is inconsistent with laboratory results
20	Failure to adequately measure flow during discharges as required by NPDES/OPDES permit.

ADDITIONAL REMARKS

DEQ FORM # 616-530B (Rev. 08/2005)

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

May 24, 2013

Matt Ritchie, Vice President of Materials
Sherwood Construction Co. Inc. dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

RE: OPDES Permit Application (new), Permit No. OK0100277
Sherwood Construction Co. Inc. dba Greenhill Materials, Rogers County, Oklahoma
Facility ID No. I-66001690

NOTICE OF DEFICIENCY

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to discharge wastewater was received by this office on April 4, 2013. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be incomplete. It is necessary for you to submit the proof of public notice of your application to this office before the permit application can be processed.

State law effective July 1, 1993, requires all permit applicants to publish in local newspapers a public notice of their application for permit to discharge. The instructions (Attachment 1 of application Form 1) provide more details of this public notice requirement.

Please submit the requested information by June 7, 2013. The permit application review process is hereby suspended pending receipt of the requested information.

Thank you for your cooperation. If you have any questions concerning this submittal or the permit procedures, please contact me at (405)702-8203.

Sincerely,

Marc Hullinger

Marc Hullinger, P.E.
Industrial Permits Section
Water Quality Division

CMP/MH/ab DM

c: Randy Beeson, General Manager, Superior Environmental Compliance

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

June 3, 2013

Matt Ritchie, Materials Manager
Greenhill Materials Limestone Quarry
P.O. Box 10
Catoosa, OK 74015-0010

RE: ODEQ Permit No. OKG95T003
Greenhill Materials Limestone Quarry, Rogers County, Oklahoma
Facility ID No. I-66001690

Dear Mr. Ritchie:

Your application for an Oklahoma Department of Environmental Quality (DEQ) waste disposal permit was received by this office on December 20, 2012. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been reviewed and determined to be administratively complete.

Please note that additional information may be requested at a later date to clarify, modify, or supplement information already provided in this application. Requests for such additional information will not render your application incomplete.

Thank you for your cooperation. Should you have any questions concerning this submittal or the permitting procedures, please contact me at (405) 702-8203.

Sincerely,

Marc Hullinger, P.E.
Industrial Permits Section
Water Quality Division

MH/ab DM

c: Randal J. Beeson, General Manager, Superior Environmental Compliance

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

FACILITY NAME: GREENHILL MATL

COMPANY ID: 1739

FACILITY ID: 3421

Company Mailing Address	STREET: 4716 N 193RD E AVE		
	CITY: CATOOSA	STATE: OK	ZIP: 74015
Facility Physical Address	STREET: 2 MI W ON HWY 266		
	CITY: CATOOSA	STATE: OK	ZIP: 74015

Status:	Active
NAICS:	212312
SIC:	1422
TRI:	

Issued Permit:	Date Issued
2005-012-O	2005-07-12

Responsible Official

Name:	JOHN CURTIS
Phone:	(918) 266-6861
Fax:	(918) 266-6482
Email:	johnc@sherwoodoklahoma.com

Notes regarding this Facility:

Facility Contact

Name:	ROB SIMMS
Phone:	(918) 266-6861
Fax:	(918) 266-6482
Email:	robs@sherwoodoklahoma.com

Facility Location: Legal Description

County:	ROGERS		
Sec Loc:		Section:	10
Town:	20N	Range:	14E

Geographic Coordinates

Latitude:	36.22819
Longitude:	-95.80579

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
1	22519	Feeder F-1 to Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23001 **Name: Feeder F-1 to Crusher CR-1** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121371 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
750	6000	**1320225**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.19** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
2	22520	Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23002 **Name: Crusher CR-1** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121372 **SCC:** 30502001 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
750	6000	**1320225**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 Days/Week 6 Weeks/Year 50

Seasonal Operating Fractions

Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0024 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.39** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 75

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.54 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0070** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.0001	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	75	**Excess Emissions** 0 **Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
3	22521	Crusher CR-1 to Conveyor C-1

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23003 **Name: Crusher CR-1 to Conveyor C-1** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	8

Process Data

Process ID: 121373 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
750	6000	**1320225**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.19** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
4	22522	Conveyor C-1 to Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23004 **Name: Conveyor C-1 to Conveyor C-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121374 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
750	6000	**1320255**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.19** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
5	22523	Conveyor C-2 to Conveyor C-3

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23005 **Name: Conveyor C-2 to Conveyor C-3** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121375 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	**33006**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: **0.0050** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency?	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
6	22524	Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 23006 — **Name: Screen S-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121376 **SCC:** 30502014 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Shaker Screens

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
750	5000	**1320225**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 — Days/Week 6 — Weeks/Year 50

Seasonal Operating Fractions

Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0315 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.19** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0030** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.00005	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
7	22525	Screen S-3 to Conveyor C-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23007 **Name: Screen S-3 to Conveyor C-8** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121377 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
35	250	**62711**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: **0.01** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1960 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
8	22526	Conveyor C-6 to Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23008 **Name: Conveyor C-6 to Crusher CR-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121378 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1200	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.05** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1960 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
9	22527	Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23009 — **Name: Crusher CR-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121379 **SCC:** 30502002 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Secondary Crushing/Screening

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
140	2000	**250843**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0024

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.07** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays — **Primary Efficiency (%):** 75

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1620 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0030** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0001		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	75	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
10	22528	Storage Piles

Notes	Unit Type	Status	Latitude	Longitude
	Open Storage Pile	Operating	36.228190	-95.805780

Emission Release Point ID: 23010 — **Name: Storage Piles** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121380 **SCC:** 30502007 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Open Storage

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
685	5000	**1320225**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 8760

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.012

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **7.26** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.66** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.001	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
0	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
11	22529	Haul Roads

Notes	Unit Type	Status	Latitude	Longitude
	Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23011 **Name: Haul Roads** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	2

Process Data

Process ID: 145141 **SCC:** 30502011 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
12	100	**20156**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 5.35 Pounds **Numerator Units** / Miles **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **24.22** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 45.90 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0410** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.009	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	70	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
12	22530	Plant Roads

Notes	Unit Type	Status	Latitude	Longitude
	Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23012 **Name: Plant Roads** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 145142 **SCC:** 30502011 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
0	0	**0**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **0**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 1.34

Numerator Units: Pounds

Denominator Units: Miles

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 26.40 **Tons/Year**

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) **CAS Number:**

Trace (<0.001 tons) ☐ **Total Actual Emissions** 0 **Tons**

Calculation Method	EmissionFactor			
AP-42 Factors	0.007	Pounds	Numerator Units	
Reference	Factor Includes Control Efficiency? ☐	Miles	Denominator Units	

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Water Sprays	70	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

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Process ID: 121382 **SCC:** 30502090 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305020 for diff. units), Haul Roads - General

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Miles		
Maximum Hourly	Typical Daily	Actual Annual	
32	240	**27287**	

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year 1818

Typical Operating Periods (when process is operational) Hours/Day 10 Days/Week 6 Weeks/Year 50

Seasonal Operating Fractions Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) **CAS Number:**

Trace (<0.001 tons) ☐ **Total Actual Emissions** 16.38 **Tons**

Calculation Method	EmissionFactor			
AP-42 Factors	1.34	Pounds	Numerator Units	
Reference	Factor Includes Control Efficiency? ☐	Miles	Denominator Units	

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Water Sprays	70	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

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Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) **CAS Number:**

Trace (<0.001 tons) ☐ **Total Actual Emissions** 0.0290 **Tons**

Calculation Method	EmissionFactor			
AP-42 Factors	0.007	Pounds	Numerator Units	
Reference	Factor Includes Control Efficiency? ☐	Miles	Denominator Units	

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
13	35579	Truck Unloading to Feeder F-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35416 **Name: Truck Unloading to Feeder F-1** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 142420 **SCC:** 30502031 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
750	6000	**1320225**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.000016 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.01** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0140 **Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
14	35580	Front-end Loader to Rock Truck

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35417 **Name: Front-end Loader to Rock Truck** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 142421 **SCC:** 30502033 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Loading: Front End Loader

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
195	1000	**201450**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.1160** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 60

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1390 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	60	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
15	35581	Rock Truck to Rail Car

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35418 **Name: Rock Truck to Rail Car** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142422 **SCC:** 30502031 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
195	1200	**201450**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 Days/Week 6 Weeks/Year 50

Seasonal Operating Fractions

Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.1160** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 60

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1390 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	60	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
16	35583	Crusher CR-2 to Conveyor C-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35419 **Name: Crusher CR-2 to Conveyor C-7** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142423 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.05** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1390 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
17	35584	Conveyor C-2 to Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35420 **Name: Conveyor C-2 to Screen S-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142424 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
350	3400	**627107**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.09** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.1390 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
18	35590	Screen S-2 to Conveyor C-5

Notes	Unit Type	Status	Latitude	Longitude
NOTE: Screen S-2 now discharges to Conveyor C-5, vice C-11	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35425 **Name: Screen S-2 to Conveyor C-5** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142429 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.05** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0490 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency?	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
21	38267	Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 38206 **Name: Screen S-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145179 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
350	3000	**627107**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.00005 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.09** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0490 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0020** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
22	38270	Screen S-3 to Conveyor C-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38209 **Name: Screen S-2 to Conveyor C-5** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145182 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1200	**250843**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.04** Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.0270 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency?	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
23	38272	Conveyor C-5 to Conveyor C-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38211 **Name: Conveyor C-5 to Conveyor C-6** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145184 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.05** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0270 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**			Trace x (<0.001 tons)	**Total Actual Emissions**	
Calculation Method		**EmissionFactor**				0 **Tons**	
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency?	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
24	38274	Fuel Storage Tank

Notes	Unit Type	Status	Latitude	Longitude
	Storage Tank	Operating	36.228190	-95.805780

Emission Release Point ID: 38213 **Name: Diesel Tank** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 145186 **SCC:** 42500101 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Breathing Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Gallons

Maximum Hourly	Typical Daily	Actual Annual
120	1000	**220058**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** Volatile Organics (non-HAP)* **CAS Number:**

Calculation Method: TANKS

EmissionFactor: 0

Reference:

Factor Includes Control Efficiency?

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Trace (<0.001 tons)

Total Actual Emissions: **0.0010** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.01 **Tons/Year**

Process ID: 145187 **SCC:** 42500102 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Working Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Gallons	120	1000	**220058**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: TANKS **EmissionFactor:** 0

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.0010** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.01 **Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
25	45812	Conveyor C-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45698 **Name: Conveyor C-9 to Pile** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154726 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
35	250	**62711**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.01** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
28	45822	Crusher CR-3 to Conveyor C-12

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45707 **Name: Crusher CR-3 to Conveyor C-12** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154739 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1200	**250843**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.04** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
29	45823	Conveyor C-11 to Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45708 **Name: Conveyor C-11 to Crusher CR-3** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154740 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1200	**250843**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.04** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
32	45827	Conveyor C-7 to Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45711 **Name: Conveyor C-7 to Screen S-3** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154743 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1200	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.05** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
33	48741	Screen S-1 to Conveyor C-1a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48668 **Name: Screen S-1 to Conveyor C-1a** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
130680	10

Process Data

Process ID: 158411 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
685	5000	**660113**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
34	48742	Conveyor C-1a to Conveyor C-1b

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48669 **Name: Conveyor C-1a to Conveyor C-1b** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158413 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	**660113**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
35	48743	Conveyor C-1b to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48670 **Name: Conveyor C-1b to Pile** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 158414 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	**660113**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Excess Emissions: 0 Tons

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
36	48744	Screen S-1 to Conveyor C-1c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48671 **Name: Screen S-1 to Conveyor C-1c** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158415 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	**660113**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
37	48745	Conveyor C-1c to Conveyor C-1d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48672 **Name: Conveyor C-1c to Conveyor C-1d** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158416 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	**660113**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency? ☐

Trace (<0.001 tons) ☐

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42 Factors	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
38	48746	Conveyor C-1d to Conveyor C-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48673 **Name: Conveyor C-1d to Conveyor C-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158417 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	**660113**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference AP-42	Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
39	48747	Conveyor C-3 to Conveyor C-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48674 **Name: Conveyor C-3 to Conveyor C-4** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158418 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	**33006**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.0050** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0060 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
40	48748	Conveyor C-4 to Conveyor C-4a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48675 **Name: Conveyor C-4 to Conveyor C-4a** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158419 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	**33006**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference AP-42	Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
41	48749	Conveyor C-4a to C-11

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48676 **Name: C-4a to C-11** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158420 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	**33006**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.0050** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0060 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference	AP-42	Factor Includes Control Efficiency?	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
42	48751	Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 48680 **Name: Crusher CR-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13068000	10

Process Data

Process ID: 158440 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0024 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.09** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0040** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.0001	Pounds	**Numerator Units**		
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions** 0 **Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
43	48752	Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 48681 **Name: Screen S-3** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158441 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	**313553**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency? ☐

Trace (<0.001 tons) ☐

Total Actual Emissions: **0.04** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.00005	Pounds	**Numerator Units**			
Reference	AP-42	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
44	48753	Conveyor C-8 to Conveyor C-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48682 **Name: Conveyor C-8 to Conveyor C-9** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158442 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
35	300	**62711**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.01** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
45	48754	Frontend loader to feed bins

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48683 **Name: Frontend loader to feed bins** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158443 **SCC:** 30502017 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units Tons

Maximum Hourly	Typical Daily	Actual Annual
250	2000	**447976**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.32** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace (<0.001 tons)	**Total Actual Emissions** **0.0030** **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference	AP-42	Factor Includes Control Efficiency?	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
46	48755	Feed bins to gathering belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48684 **Name: Feed bins to gathering belt** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158444 **SCC:** 30502017 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
250	2000	**447976**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0620** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**		Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0030** **Tons**
Calculation Method	**EmissionFactor**				
AP-42 Factors	0.000013	Pounds	**Numerator Units**		
Reference AP-42	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device** Water Sprays	**Primary Efficiency (%)** 90	**Excess Emissions** 0	**Tons**	
100	**Secondary Control Device** * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**	

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
47	48756	Gathering belt to feed belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48685 **Name: Gathering belt to feed belt** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158445 **SCC:** 30502017 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units Tons

Maximum Hourly	Typical Daily	Actual Annual
250	2000	**447976**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.0620** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace (<0.001 tons)	**Total Actual Emissions** **0.0030** **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference	AP-42	Factor Includes Control Efficiency?	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
48	48757	Railcar to Subsurface Bin

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48687 **Name: Railcar to Subsurface Bin** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
130680	1

Emission Release Point ID: 48686 **Name: Railcar to Subsurface Bin** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158446 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
100	250	**65395**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace ☐ (<0.001 tons)

Total Actual Emissions 0.0090 **Tons**

Calculation Method	EmissionFactor			
AP-42 Factors	0.0029	Pounds	**Numerator Units**	
Reference AP-42	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**	

Capture efficiency (%)							
	Primary Control Device	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns)

CAS Number:

Trace ☒ (<0.001 tons)

Total Actual Emissions 0 **Tons**

Calculation Method	EmissionFactor			
AP-42 Factors	0.000013	Pounds	**Numerator Units**	
Reference AP-42	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**	

Capture efficiency (%)							
	Primary Control Device	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
49	48758	Subsurface bin to Conveyors C-a thru C-c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48688 Name: Subsurface bin to Conveyors C-1 thru C-c Type: Fugitive — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 158447 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
100	250	**65395**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
50	48759	Conveyors C-a thru C-c to Conveyor C-d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48689 **Name: Conveyors C-a thru C-c to Conveyor C-d** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13006800	5

Process Data

Process ID: 158448 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
100	250	**66395**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1818**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.00013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
51	48760	Conveyor C-d to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48690 **Name: Conveyor C-d to Pile** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158449 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
100	250	**66395**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1818

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)*

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100

Primary Control Device: Water Sprays **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace x (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency?		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL **FACILITY ID: 3421**

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Volatile Organics (non-HAP)		0.0020	N

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* PM-10 (All Particulate Matter <10 microns)		51.1320	N
* PM-2.5 (All Particulate Matter <2.5 microns)		0.7640	N

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

"I certify:
(a) That I am the Responsible Official for SHERWOOD CONSTRCTN CO INC as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ **Date:** _____ **Title:** _____

A

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

June 20, 2013

Matt Ritchie, Materials Manager
Sherwood Construction dba Greenhill Materials
P.O. Box 10
Catoosa OK 74015-0010

RE: DEQ Application No. OKG95T003
Greenhill Materials Limestone Quarry, Rogers County, Oklahoma
Facility ID No. I-66001690

Dear Mr. Ritchie:

Your Authorization to treat and dispose of wastewater under OPDES General Permit No. OKG95T is enclosed. The effective date and the expiration date of this Authorization appears on the cover page.

Should you have any questions regarding the Authorization, please contact the Industrial Permits Section at the letterhead address or telephone (405) 702-8100. Should you have any questions regarding compliance with the conditions of this Authorization, please contact the Industrial Enforcement Section at the same address and phone number.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

MH/ab DM/SLT/AR

Enclosure

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR DISCHARGE AND/OR DISPOSAL
UNDER GENERAL PERMIT NO. OKG950000

AUTHORIZATION NO.: OKG95T003
FACILITY ID NO.: I -66001690

In compliance with Title 27A O.S. §2-6-201 *et seq.* (the OPDES Act), as amended, the Rules of the Department of Environmental Quality promulgated thereunder, and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction dba Greenhill Materials
Greenhill Materials Limestone Quarry
P.O. Box 10
Catoosa, OK 74015-0010

is hereby authorized to treat and dispose of wastewater from the washing and sorting of rock, sand, and/or gravel (SIC Codes 1422, 1423, and 1442) and associated stormwater runoff from their facility located at:

N½, NW¼, SE¼, Section 10, Township 20N, Range 14EIM and
NE¼, NE¼, Section 10 Township 20N, Range 14EIM and
S½, NW¼, Section 11, Township 20N, Range 14EIM
or at 14701 E. Highway 266, Owasso, OK 74055

The above-referenced facility is also authorized to retain wastewater in three flow-through impoundments (F01 through F03) and one total-retention surface impoundments (T01), as described in the Appendix. Wastewater descriptions and classifications are also contained in the Appendix. Surface impoundments shall be maintained in accordance with conditions set forth in General Permit No. OKG95, and in Parts I, II, III, and the Appendix hereof.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and DEQ Rules.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This Authorization replaces and/or supersedes DEQ Authorization No. OKG95T003 that became effective on June 14, 2012.

This Authorization shall become effective on June 20, 2013.

This Authorization shall expire at midnight, on May 31, 2018.

This is to certify that the proposed wastewater discharges set forth in this Authorization meet the requirements of the Oklahoma Water Quality Standards, as amended, and the DEQ Rules.

Issued this 20th day of June, 2013.

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

PART I
EFFLUENT LIMITATIONS, MONITORING AND OTHER REQUIREMENTS

A. Effluent Limitations and Monitoring Requirements

None.

B. Schedule of Compliance

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule: None.

C. Surface Impoundments

The use of surface impoundments for treatment and/or disposal of wastewater at Rock, Sand and Gravel Quarries is authorized by this General Permit, subject to additional State requirements as specified below and in this Authorization, in accordance with OAC 252:616.

1. Construction Requirements

Impoundments shall be constructed and maintained in accordance with OAC 252:616-7-1.

2. Wastewater Classification

The wastewater generated from routine operations of rock, sand, and gravel quarries and stone cutting facilities is classified as Class III wastewater in accordance with OAC 252:616-1-2.

3. Liner Requirements

Liner materials and construction shall be in compliance with requirements of OAC 252:616-7-1(9) and OAC 252:616-7-2 through OAC 252:616-7-7.

4. Other Specific Requirements

a. Wastewater contained in surface impoundments may be recycled for use in dust suppression, stockpile watering, wash water, or cooling water.

b. At such time as surface impoundments are to be permanently taken out of service or at such time as the contents of surface impoundments pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.

c. In all other respects, surface impoundments shall be subject to standard conditions for surface impoundments contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring, and closure.

d. The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; additional monitoring and reporting (including but not necessarily limited to soil sampling); reclassification of wastes; sludge management plans; best management practices; closure plans; remediation and/or remediation plans; monitoring wells and/or subsurface monitoring plans; and/or other appropriate actions.

5. **Freeboard Requirements (OAC 252:616-7-1(7))**

   A minimum freeboard of three (3) feet shall be maintained for all surface impoundments.

6. **Depth to Groundwater (OAC 252:616-7-1(4))**

   Surface impoundments as required by OAC 252:616-7-1(4) are required to be located such that the base of the liner is at least fifteen (15) feet above historic maximum groundwater table. Since the wastewater from the activities covered by this general permit is classified as Class III, this requirement may be waived in accordance with OAC 252:616-7-1(4)(B).

D. Tank Systems

The use of underground tank systems to manage process wastewater for treatment and/or disposal of process wastewater is authorized by this permit, subject to additional State requirements as specified below and in the Authorization, in accordance with OAC 252:616-9.

1. **Authorized Use of Tank Systems (OAC 252:616-9-1)**

   The use of tank systems for all wastewater classifications is authorized as follows:

   a. Tank systems without lateral lines can be used for the treatment of Class I, II, III, and V wastewater.

   b. Tank systems with lateral lines are subject to the Underground Injection Control permitting process.

2. **Tank System Materials (OAC 252:616-9-2)**

   Tank systems may be constructed of concrete, metal, plastic, or fiberglass in accordance with OAC 252:616-9-2.

3. **Tank System Requirements (OAC 252:616-9-3)**

   Tank systems must be constructed in accordance with OAC 252:616-9-3.

E. Land Application and Beneficial Reuse of Wastewater

Land application of process wastewater for dust suppression or stockpile watering and/or reuse of process wastewater for rock washing or cooling water is authorized by this permit, and is subject to the requirements as specified below and in the Authorization, in accordance with OAC 252:616-11.

1. Process wastewater that is reused or land applied for dust suppression must be classified as Class III wastewater in accordance with OAC 252:616-1-2.

2. Process wastewater to be land applied for dust suppression shall be free of visible sheen of oil or globules of oil or grease.

3. The process wastewater to be land applied for dust suppression shall be visually inspected prior to land application.

4. Process wastewater that is recycled is exempt from monitoring requirements.

5. There shall be no land application of process wastewater for dust suppression in areas where the depth to the maximum seasonal groundwater level is less than two (2) feet in accordance with OAC 252:616-5-1(b)(5).

6. There shall be no land application of process wastewater for dust suppression during periods of precipitation or when soil is saturated or frozen.

7. There shall be no runoff of process wastewater used for dust suppression.

F. Disposal of Other Solids

Solids, sludges, or other pollutants other than recyclable material, removed in the course of treatment or control of wastewater shall be disposed of in a State-approved industrial waste disposal site or to a company for recycling. If any such industrial wastes are removed from the facility, the permittee shall keep accurate records that include the following information:

1. Name and address of company hauling waste.
2. The type and amount of waste hauled.
3. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the DEQ's staff for review. These records shall be kept for a minimum of three (3) years.

PART II
OTHER PERMIT CONDITIONS AND REQUIREMENTS

A. Regulatory Notice

The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the state of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the Director's approval, grant and issuance of this permit, permittee acknowledges receipt of true, correct and current copies of Oklahoma's Water Quality Standards, and the rules of the Oklahoma Department of Environmental Quality, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.

B. Reopener Clause

The permit may be reopened to implement and/or require impoundment and/or tank system modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.

C. Individual permits

1. Any permittee authorized by this permit may request to be excluded from the coverage of this general permit by applying for an individual permit. The permittee shall submit the appropriate OPDES application forms together with the reasons supporting the request to the Water Quality Division.

2. When an individual OPDES permit is issued to a permittee otherwise subject to this general permit, the applicability of this permit to that owner or permittee is automatically terminated on the effective date of the individual permit.

3. As described in the General Provisions of this permit, a rock, sand, or gravel quarry excluded from coverage under this general permit solely because it already has an individual permit may request that the individual permit be revoked, and that the quarry covered by this general permit. Upon revocation of the individual permit, this general permit shall apply to the quarry.

D. Laws and Rules Applicable

The DEQ Rules, as amended, are applicable to and are incorporated by reference into this permit and any Authorizations issued under it. The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and all amendments of the laws of the State of Oklahoma, the Department of Environmental Quality Rules, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit to any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit of the permittee. By DEQ approval, grant, and issuance of this permit, permittee acknowledges responsibility to obtain correct and current copies of applicable DEQ Rules (as amended), provided, however, that permittee further acknowledges that any and all amendments thereto shall become a part of this permit.

E. Definitions

1. The term "active quarry area" means the area, on or beneath land, used or disturbed in activity related to the extraction, removal or recovery of rock, sand or gravel from its natural deposit(s).

2. The term "stormwater runoff from the active quarry" as described in 40 CFR 122.26(b)(14) means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing, or raw material storage areas at an industrial plant. This paragraph of the rule also states "...For the categories of industries identified in paragraph (b)(14)(xi) of this section, the term includes only stormwater discharges from all the areas that are listed previously where material handling equipment, or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product."

APPENDIX

Description of Wastewater Treatment/Disposal Surface Impoundments

Wastewater Classification OAC 252:616-1-2		Liner Type	Holding Capacity or Dimensions OAC 252:616-7-1(6) [b]	Wastewater Destination
ID [a]	Wastewater Description			
F01	Storm water and wastewater from the washing and sorting of rock, sand and/or gravel Class III	Native Soil	0.8 million gallons ~ 54' x 126' x 10'deep	F02
F02	Storm water and wastewater from the washing and sorting of rock, sand and/or gravel Class III	Native Soil	0.4 million gallons ~ 33' x 42' x 12' deep	F03
F03	Storm water and wastewater from the washing and sorting of rock, sand and/or gravel Class III	Native Soil	2.5 million gallons ~ 58' x 176' x 12' deep	T01
T01	Storm water and wastewater from the washing and sorting of rock, sand and/or gravel Class III	Native Soil	24,235,200 gallons ~ 172' x 246' x 17' deep	Total Retention

[a] Designation F refers to flow-through surface impoundment.
Designation T refers to total retention surface impoundment.
[b] Based on information provided in application. Freeboard requirements in Part I.C.5 must be met.

Location of Surface Impoundments

ID	Legal Location Description	General Location and Description
F01	SE¼, SW¼, NW¼, Section 10, Township 20N, Range 14EIM, Rogers County, Oklahoma	Approximately 100 yards east of the office building.
F02	SE¼, SW¼, NW¼, Section 10, Township 20N, Range 14EIM, Rogers County, Oklahoma	Approximately 200 yards northeast of the office building.
F03	NE¼, SW¼, NW¼, Section 10, Township 20N, Range 14EIM, Rogers County, Oklahoma	Approximately 300 yards east of the office building.
T01	SW¼, SW¼, NE¼, Section 10, Township 20N, Range 14EIM, Rogers County, Oklahoma	Approximately ¼ mile east of the office building.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

July 23, 2013

John Curtis, President
Sherwood Construction Co. Inc. dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

RE: OPDES Permit Application, Permit No. OK0100277
Sherwood Construction Co. Inc. dba Greenhill Materials, Rogers County, Oklahoma
Facility ID No. I-66001690

Dear Mr. Curtis:

Your application for a new Oklahoma Department of Environmental Quality (DEQ) permit to discharge wastewater was received by this office on April 4, 2013. On May 24, 2013, an incomplete letter was sent to you requesting the proof of publication for the public notice of application requirement. The proof of publication was received on June 6, 2013. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be administratively complete.

Please note that additional information may be requested at a later date to clarify, modify, or supplement information already provided in this application. Requests for such additional information will not render your application incomplete.

Thank you for your cooperation. If you have any questions concerning this submittal or DEQ permitting procedures, please contact me at (405)702-8203.

Sincerely,

Marc Hullinger, P.E.
Industrial Permits Section
Water Quality Division

CMP//MJ/ab DM

c: Randal J. Beeson, General Manager, Superior Environmental Compliance

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

October 9, 2013

CERTIFIED MAIL

John Curtis, President
Sherwood Construction Co. Inc. dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

RE: OPDES Permit Application, Permit No.OK0100277
Sherwood Construction Co.Inc. dba Greenhill Materials Rogers County, Oklahoma
Facility ID No. I-66001690

NOTICE OF DEFICIENCY

Dear Mr. Curtis:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to discharge wastewater was received by this office on April 4, 2013 and was determined to be complete on July 23, 2013.

On October 2, 2013 the DEQ received an email from your consultant Randy Beeson saying that Greenhill Materials is considering the use of a cyclone to remove the sediment generated by the quarry ponds and that Greenhill Material staff need additional time to evaluate the technology. Mr. Beeson stated that if the cyclone is installed at the Greenhill Materials quarry, it will generate relatively dry sediment that can be hauled by truck and that Sherwood Construction Co. Inc. dba Greenhill Materials would withdraw the application for the referenced permit.

In consideration of the request of your consultant, the permit application technical review process is hereby suspended until December 3, 2013.

If you have any questions concerning this submittal or DEQ permit procedures, please contact me at (405)702-8203.

Sincerely,

Marc Hullinger

Marc Hullinger, P.E.
Industrial Permits Section
Water Quality Division

CMP/MH/ab DM

c: Randal J. Beeson, General Manager, Superior Environmental Compliance

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

December 16, 2013

John Curtis, President
Sherwood Construction Co. Inc. dba Greenhill Materials
P.O. Box 10
Catoosa, OK 74015

RE: Industrial Minor Permit Application
Sherwood Construction Co.Inc. dba Greenhill Materials Rogers County, Oklahoma
Permit No. OK0100277
Facility ID No. I-66001690

Dear Mr. Curtis:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to treat and dispose of wastewater was received by this office on April 4, 2013, and was determined to be complete on July 23, 2013.

On December 9, 2013 the DEQ received an email from your consultant Randy Beeson saying that Greenhill Materials installed a cyclone to remove the sediment generated by the quarry ponds and to formally withdraw your application. As specified in OAC 252:004-7-14 of the DEQ rules, your application has been withdrawn.

Should you again propose to treat and dispose of industrial wastewater or to discharge any pollutant to the waters of the States from this facility, you will need to file a new application at least 180 days in advance of the proposed disposal and/or discharge. Any permit issued as a result of such application will contain conditions and limitations consistent with the situation, and the law and regulations in effect at the time of issuance of a new permit.

Thank you for your cooperation. If you have any questions concerning this submittal or DEQ permitting procedures, please contact Brandon Tyler at (405)702-8215.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

CMP/BT/ab DM

Tyler, Brandon

From: Randy Beeson <randy.beeson@secompliance.com>
Sent: Monday, December 16, 2013 10:00 AM
To: Tyler, Brandon
Subject: FW: Greenhill Materials OPDES Discharge Permit

Here you go.

Randy Beeson
Superior Environmental Compliance, Inc.
Phone: 918-739-4780
Mobile: 918-695-8840
Fax: 918-739-4799
www.superiorenviro.com

From: Randy Beeson
Sent: Monday, December 09, 2013 3:37 PM
To: 'Hullinger, Marc (Marc.Hullinger@deq.ok.gov)'
Cc: 'John Curtis'
Subject: Greenhill Materials OPDES Discharge Permit

Marc,

In mid-September Sherwood Construction notified you that it wanted to suspend review of the OPDES discharge permit application submitted earlier this year for the proposed sediment storage area on the east side of its Greenhill Materials Quarry. Sherwood has now installed a cyclone between the sand screw and its total retention ponds in order to trap and dewater sediment in the pond inflow. The dewatered sediment can now be transported by haul truck to the fill area and placed for future site development. Thus, we are formally requesting that this permit application be withdrawn at this time. Please contact me if you have any questions regarding this request. Thank you.

Randy Beeson
Superior Environmental Compliance, Inc.
Phone: 918-739-4780
Mobile: 918-695-8840
Fax: 918-739-4799
www.superiorenviro.com

Recieved 12-9-13
Facility Id: I-66001690
Permit #: OK0100277

IDP #6895

RECEIVED
FEB 18 2014
WATER QUALITY DIVISION

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Engineering Report Form

for

Water Distribution Systems and Ground Water Wells

The City of Tulsa proposes the construction of a waterline extension(s), ground water well(s), pumping facility, chlorination facility, and/or water storage facility in the manner indicated by the information contained herein and by the plans, profiles, specifications, and other data attached hereto. The plans and specifications have been approved and signed by the proper city officials or owner and an application for a permit properly executed by the Mayor, Chairman of the Board or owner accompanies this report.

I. General Information

1. Name of Facility: City of Tulsa
2. PWSID Number: 1021307
3. Legal Description: ___ /4, SW /4, NW /4, of Section 17, T- 20 - N, R - 14 - E, I. M. / C. M., Tulsa County
4. Source of Water Supply: City of Tulsa
   a. Surface _____, Ground _____, or Purchase _____
   b. Community X or Non-Community _____
5. Population Served by System: 30
6. Type of Service Area (Rural waterline extension, Municipal, Mobile Home Park, Camp Grounds, School, Etc.) : Municipal
7. Number of Service Connections (System): 2
8. Technical specifications for the proposed waterline extension, booster pump(s), and water well(s) are provided? Yes (X) ; No ( ), if No, the most current City Ordinances or Standards are referred to: Yes (X); No ( ). If Yes, the Ordinances/Standards are included or on file with the Construction Permit Unit, Water Quality Division, Oklahoma Department of Environmental Quality.

WLEX0072140164
Tulsa Metropolitan Utility Authority - Tulsa County
WATER CONST. PERMIT FILE: FACILITY # S-20409

9. The area of the proposed development: 20 . If area of development is 1 acre or more, has the developer/builder obtained a DEQ Storm Water Construction Permit? Yes (X); No ( ). Developers/builders are required to obtain a DEQ Storm Water Construction Permit for a construction site that will disturb one (1) acre or more in accordance with OPDES, 27A O.S. 2-6-201 et siq.

II. Waterline Extension Technical Information

A. Municipal Waterline Extensions

1. The proposed waterline system is designed to maintain a minimum pressure of 25 psi at all points under all conditions of flow? Yes (X) : No ( )
2. Hydraulic analysis based on flow demands and pressure requirements is used to size all water mains? Yes (X); No ( ).
3. Hydraulic analysis is provided (hydraulic analysis is required for the review process)? Yes ( ); No (X).
4. Number of service connections to be served by this waterline after the construction is complete: 2 .
5. A minimum waterline size of six (6) inches in residential areas and eight (8) inches in high value districts are proposed? Yes (X); No ( ).
6. The normal static pressure throughout the area to be served will range from _____ to 118 psi.
7. The normal dynamic pressure throughout the area to be served will range from _____ to 111 psi.
8. Flushing hydrants that discharge above the ground surface are provided for dead-end lines? Yes ( ); No ( ). N/A no dead end lines in project
9. Positive closing valves are located so that a single break in the line will require no more than 500 linear feet of line to be disconnected in high value districts and 1,320 linear feet in other areas? Yes (X); No ( ).
10. Hydrants are provided at each intersection and at intermediate points so spacing does not exceed 600 feet? Yes (X); No ( ).
11. Hydrants should have one (1) 4 ½ inch pumper outlet, not less than two (2) 2 ½ inch hose outlets.
12. Hydrants, with 4 ½ inch pumper outlets are to be connected to mains smaller than 6 inches? Yes ( ); No (X). If Yes, explain _____
13. Drains from hydrant barrels do not connect to any sanitary sewer or storm drain? Yes (X); No ( ).
14. Air relief valves are provided at high points? Yes (X); No ( ).
15. In large mains, blow offs are provided at low points? Yes ( ); No ( ) N/A
16. Are there any cross connections between the public water supply and any sanitary sewer or storm drain? Yes ( ); No (X).

B. Rural Waterline Extensions

1. The proposed waterline system is designed to maintain a minimum pressure of 25 psi at all points under all conditions of flow? Yes ( ) : No ( )
2. Hydraulic analysis based on flow demands and pressure requirements is used to size all water mains? Yes ( ); No ( ).
3. Hydraulic analysis is provided (hydraulic analysis is required for the review process)? Yes ( ); No ( ).
4. Number of service connections to be served by this waterline after the construction is complete: _____.
5. The normal static pressure throughout the area to be served will range from _____ to _____ psi.
6. The normal dynamic pressure throughout the area to be served will range from _____ to _____ psi.
7. Flushing hydrants that discharge above the ground surface are provided for dead-end lines? Yes ( ); No ( ).
8. Valves are located at no more than two (2) mile intervals? Yes ( ); No ( ).
9. Air relief valves are located at high points in the distribution system? Yes ( ); No ( ).
10. Are there any cross connections between the public water supply and any sanitary sewer or storm drain? Yes ( ); No ( ).

C. Installation of Waterlines (To Be Completed For All Municipal and Rural Waterline Extensions)

1. Specifications:
   a.

Pipe material	Applicable Standard	Class	Pressure Rating
Cast Iron			
Ductile Iron	AWWA C151	50	350
PVC			
HDPE			
Other			

   b. Minimum Depth of Cover (30 inches minimum): 36"
   c. Pressure and Leakage Testing in accordance with AWWA C-601? Yes (X); No ( ).
   d. Disinfection Procedures in accordance with AWWA C-651? Yes (X); No ( ).
   e. Reaction blocking is provided at all bends, tees, and hydrants? Yes (X); NO ( ).
   f. Installation of waterlines meets AWWA and Oklahoma DEQ construction standards? Yes (X); No ( ).
2. Does this water line project involve construction along any state or federal highway? Yes ( ); No (X). If yes, has the Oklahoma Department of Transportation (ODOT) been notified, and, do the plans show the location of all affected utilities on file with ODOT? Yes ( ); No ( ).
3. Minimum horizontal separation between water and sewer lines is 10 feet? Yes (X); No ( ). If no, please indicated minimum possible horizontal separation:_____(If 10 feet of separation is not possible, the water line must be constructed in a separate trench and the sewer line designed, constructed, and tested as water line pipe in accordance with OAC 252:656-5-4[c]).
4. Minimum horizontal separation between plastic water lines and gasoline storage tanks (including appurtenances) is at least 50 feet? Yes (X); No ( ). If no, cast iron must be used for water line pipe and in no case be closer than 10 feet to any part of the storage tank system.
5. Minimum horizontal separation between water and all parts of septic tanks and absorption fields, or other sewage treatment and disposal system is 15 feet? Yes (X); No ( ).

6. Minimum horizontal separation distance between waterlines existing or future storm sewers, raw water, oil and gas (includes natural gas), and buried electric lines is 10 feet? Yes (X); No ( ). If no, the minimum horizontal separation for storm sewer lines is _____ feet, raw waterlines is _____ feet, oil & gas lines is _____ feet, and buried electric lines is _____ feet.
7. Where waterlines and sewer lines intersect the minimum vertical separation (edge to edge) is 24" inches.
8. Hydrants or other flushing devices capable of flow velocities of at least 2 feet per second in the waterline are installed at all dead-ends? Yes ( ); No ( ). N/A no dead in lines in project
9. Proposed waterline extension involves surface water crossings? Yes ( ); No (X).
   If Yes, above water crossings ( ) or under water crossing ( ). Width of crossing _____ ft.
   If above water crossing:
   a. waterline is adequately supported and anchored? Yes ( ); No ( ),
   b. waterline is adequately protected from damage and freezing? Yes ( ); No ( ),
   c. expansion joints are provided at each end of the crossing? Yes ( ); No ( ), and
   d. waterline is easily accessible for repair? Yes ( ); No ( ).
   If under water crossing is greater than 15 feet:
   a. minimum cover provided is _____ feet,
   b. waterline has flexible watertight joints? Yes ( ); No ( ),
   c. valves are provided at both ends of the water crossing? Yes ( ); No ( ),
   d. the valve closest to the water source is in a manhole? Yes ( ); No ( ), and
   e. permanent sampling taps are provided on each side of the valve within the manhole? Yes ( ); No ( ).
10. Waterlines proposed:

Line Segment	Diameter (inches)	Length	Material
1	8"	880	DIP

11. Onsite inspection of the proposed waterline construction will be inspected by:
    Engineering Firm? Yes ( ); No ( ),
    Owner? Yes (X); No ( ), or
    Other (please specify)? _____

III. Ground Water Wells

1. **General information:**
   a. A completed "Checklist for Well Head Protection" is required for all new well construction. A completed "Checklist for Well Head Protection" is included in the plan documents. Yes ( ); No ( ).
   b. Number of wells _____
   c. Capacity of well(s): (# 1) _____, (# 2) _____, (# 3) _____, (# 4) _____
   d. Well depth(s) (# 1) _____, (# 2) _____, (# 3) _____, (# 4) _____

e. Legal Description:

Well # 1 ___ /4, ___ /4, ___ /4, of Section _____, T- ___ - ___, R - ___ - ___,
I. M. / C. M., _____ County
Well # 2 ___ /4, ___ /4, ___ /4, of Section _____, T- ___ - ___, R - ___ - ___,
I. M. / C. M., _____ County
Well # 3 ___ /4, ___ /4, ___ /4, of Section _____, T- ___ - ___, R - ___ - ___,
I. M. / C. M., _____ County

f. Type of Well (dug, driven, or drilled): _____
g. Name and Characteristics of Aquifer: _____
_____
_____
h. One Hundred Year Flood Elevation: _____
i. Water Well Elevation of Wells: (#1)_____(#2) _____(#3)_____

2. General Water Well Construction
   a. Well Casing:
      1. Type of well casing: _____
      2. Diameter of well casing: _____
      3. Thickness of well casing: _____
      4. Depth of well casing: _____
      5. Well casing extends a minimum of 12 inches above the pump house floor and 18 inches above the final ground surface? Yes ( ); No ( ).
      6. The top of the well casing is sealed with a sanitary well seal to properly protect against the entrance of contamination into the well? Yes ( ); No ( ).
   b. Surface Casing:
      1. Type of surface casing: _____
      2. Diameter of surface casing: _____
      3. Thickness of surface casing: _____
      4. Depth of surface casing: _____
      5. Surface casing extends a minimum of 12 inches above the pump house floor and 18 inches above the final ground surface? Yes ( ); No ( ).
   c. Type, depth, and thickness of grout: _____
   d. Type and length of screen: _____
   e. The water well is location at the highest point on the premises? Yes ( ); No ( ).
   f. The pump house floor is located at least two (2) feet above the 100 year flood elevation? Yes ( ); No ( ).
   g. Well(s) is provided with a means to measure the water level(s) periodically? Yes ( ); No ( ).
   h. Well(s) has provisions for venting the well casing to the atmosphere? Yes ( ); No ( ).
   i. The discharge piping is equipped with the following:
      1. Check valve? Yes ( ); No ( ),
      2. Shut-off valve? Yes ( ); No ( ),
      3. Pressure gage? Yes ( ); No ( ),
      4. Flow meter? Yes ( ); No ( ), and
      5. A smooth nosed sampling tap located on the upstream side of the shut-off valve and at a point where positive pressure is maintained? Yes ( ); No ( ).
   j. All exposed piping, valves, and appurtenances are protected against physical damage and freezing? Yes ( ); No ( ).
3. Well development is included as a part of the specifications and meets the requirements of OAC 252:626-7-4 (a)? Yes ( ); No ( ).
4. Disinfection of the well and ground water is specified and meets the requirements of OAC 252:626-7-4 (d) & (e)? Yes ( ); No ( ).

5. Chlorination facilities required for all ground water systems are proposed? Yes ( ); No ( ). If Yes:
    1. Type of chlorinator: _____
    2. Proposed chlorination facility meets the requirements of OAC 252:626-11 and OAC 252:626-11-4? Yes ( ); No ( ).
6. Water Well Pumps:
    a. Type of pumps proposed: _____
    b. Type of pump motor: _____
    c. Pump capacity: _____ gpm
    d. Operating head: _____ feet
    e. Voltage: _____
    f. Auxiliary power source is provided? Yes ( ); No ( ). If No, explain: _____

IV. Disinfection Facilities

1. Daily flow of water to be treated: _____ gpd.
2. A flow meter is provided in order to measure water flow to determine chemical application rate? Yes ( ); No ( ).
3. Disinfection chemicals specified: _____
4. Type of chlorinator specified: _____
5. Maximum feed range: _____ Minimum feed range: _____
6. Capacity of chlorinator can meet chlorine demands at maximum flow? Yes ( ); No ( ).
7. Provisions are provided for measuring the quantities of chemicals used? Yes ( ); No ( ).
8. Standby equipment is provided? Yes ( ); No ( ).
9. A minimum of 30 minutes contact time is provided for ground water? Yes ( ); No ( ).
10. Residual chlorine of 0.2 mg/l at distant points is provided for? Yes ( ); No ( ).
11. Chlorine residual test equipment is provided? Yes ( ); No ( ).
12. Use of chlorine gas is proposed? Yes ( ); No ( ), If Yes:
    a. A separate room is provided? Yes ( ); No ( ),
    b. A shatter resistant, clear glass inspection window is installed in an exterior door or interior wall to permit the chlorinator to be viewed without entering the room is provided? Yes ( ); No ( ),
    c. The chlorine room is constructed in such a manner that all openings between the chlorine room and the remainder of the plant are sealed? Yes ( ); No ( ),
    d. Scales are provided for weighing cylinders? Yes ( ); No ( ),
    e. The chlorine room is equipped with a ventilating fan with a capacity which provides one complete air change per minute in the room? Yes ( ); No ( ),
    f. Exhaust fans take suction near the floor? Yes ( ); No ( ),
    g. Switches for fans and lights are located outside of the room, at the entrance, with a signal light indicating when the fan is in operation? Yes ( ); No ( ),
    h. A heater is provided which has the capability of heating the chlorine room to 60 °F? Yes ( ); No ( ), and
    i. Chlorine gas lines that extend beyond the chlorine gas room are feed under vacuum? Yes ( ); No ( ).

V. Pumping Facilities

A. Pump Stations

1. One hundred year flood elevation: _____.
2. Site is accessible at all times, regardless of floods? Yes ( ); No ( ).
3. Site will be graded so as to lead surface drainage away from the station so water will not enter or pool against the building? Yes ( ); No ( ).
4. Building has outward-opening doors of adequate size? Yes ( ); No ( ).
5. All floors slope 0.3 inch per foot to a suitable drain? Yes ( ); No ( ).
6. All construction shall be in accordance with state and local safety, building, electrical, plumbing, and sanitary codes? Yes ( ); No ( ).
7. Provisions are provided for adequate heating? Yes ( ); No ( ).
8. Pump house is adequately lighted throughout and all electrical work conforms with requirements of National Electrical Code and the American Insurance Association? Yes ( ); No ( ).
9. A means of bypassing the pumping station is provided? Yes ( ); No ( ).
10. Pumping station is equipped with a flow meter? Yes ( ); No ( ).
11. Controls provide for proper alternation of the pumps? Yes ( ); No ( ).
12. Booster pumps are equipped and controlled so that:
    a. they will not produce negative pressure in their suction lines? Yes ( ); No ( ),
    b. the intake pressure will be at least 20 psi when the pump is in normal operation? Yes ( ); No ( ),
    c. the pump will automatically cutoff if the pressure in the suction line falls below 10 psi? Yes ( ); No ( ).
13. Provisions are made for stand-by emergency power in the event of a power failure? Yes ( ); No ( ). If no explain _____
    _____
    _____

B. Pumps

1. Type of pump(s): _____.
2. At least two pumps are provided? Yes ( ); No ( ).
3. With one pump out of service, the remaining pump(s) is(are) capable of providing the maximum daily pumping demand of the system? Yes ( ); No ( ).
4. A check valve of the non-slam type is located at each pump casing? Yes ( ); No ( ).
5. A positive closing valve is located on the discharge line after the check valve? Yes ( ); No ( ).
6. Piping is protected against freezing? Yes ( ); No ( ).
7. Shut-off valves are provided on the suction line to each pump? Yes ( ); No ( ).
8. Each pump has a standard pressure gage on its discharge line? Yes ( ); No ( ).
9. Each pump has a compound pressure gage on its suction line? Yes ( ); No ( ).
10. Each pump is provided with smooth nosed sampling cocks on the suction and discharge lines? Yes ( ); No ( ).

VI. Water Storage Facilities

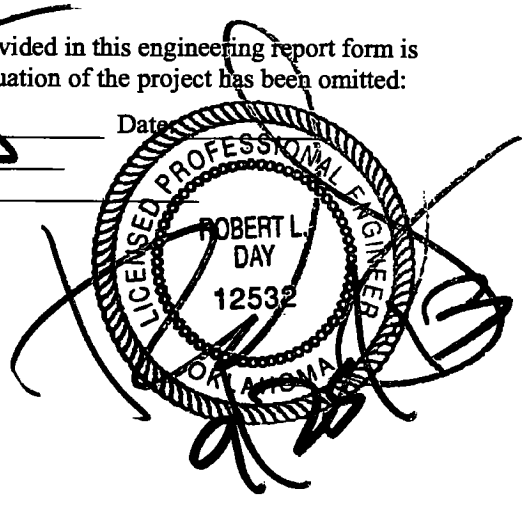
1. Water storage tank is located near centers of high demand? Yes ( ); No ( ).
2. One hundred year flood plain elevation: _____.

3. Type of storage tank(s): _____.
4. Hydraulic analysis is included? Yes ( ); No ( ),
5. The normal static pressure in the receiving line is _____.
6. The normal dynamic pressure in the receiving line is _____.
7. Base elevation: _____.
8. Low water level elevation: _____.
9. Low water level elevation of any other water storage facilities on the distribution system: _____, _____, _____, _____.
10. High water level elevation: _____.
11. High water level elevation of any other water storage facilities on the distribution system: _____, _____, _____, _____.
12. Level controls are provided? Yes ( ); No ( ), If No explain: _____
_____
13. A vent is provided? Yes ( ); No ( ).
14. Tank is equipped with an overflow which is brought down to an elevation between 12 and 24 inches above the ground surface? Yes ( ); No ( ).
15. Separate inlet and outlet lines that provide for positive circulation are provided? Yes ( ); No ( ), If no explain: _____
16. The inlet line terminates at a point between 30% and 50 % of the tank height? Yes ( ); No ( ).
17. A means of bypassing the tank is provided? Yes ( ); No ( ).
18. Convenient access to the interior of the tank for cleaning and maintenance is provided? Yes ( ); No ( ).
19. Type of paint used: _____; Manufacturer _____.
20. Paint proposed is listed by the National Sanitation Foundation as meeting the ANSI/NSF standards for contact with potable water? Yes ( ); No ( ).
21. Disinfection in accordance with AWWA C-652 is provided? Yes ( ); No ( ).
22. Fencing is provided for protection from trespass? Yes ( ); No ( ).

Professional Engineer's Certification:

I certify that, to the best of my knowledge, all the information provided in this engineering report form is correct and no significant information necessary for a proper evaluation of the project has been omitted:

Signature of Professional Engineer: _____ Date: _____
Name of Professional Engineer: Robert L. Day, P.E.
State of Oklahoma Professional Engineer No: 12532
Phone No: (918) 877-6000



PERMITTING GROUP

F1C2

PERMIT APPLICATION ROUTING SLIP

Routing Sequence:

Task		Routed to Name	Date	By
Application received (date-stamped) and copied		[redacted]	4/25/14	JL
Application routed to permitting manager for initial review	Previous Permit Writer			
Routed to permit engineering staff		Brandon	4/25/14	JL
Check Information	Check number or CC for Credit Card	Amount	Date Rcv'd	Rcv'd By
	6015	100.00	4/25/14	JL

Facility Name: Greenhill Concrete Products, Inc **County:** Rogers

Permitting Group Use Only

Permit Type (check 1 box)	Application Form(s) Required
☐ Municipal Major (OK00)	2M1
☐ Municipal Minor (OK00)	2M2
☐ Municipal Discharging Lagoon (OKG58)	2MG58
☐ Municipal Filter Backwash (OKG38)	2MW
☐ Industrial Major (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Minor (OK00)	1, 2C, or 2D (2SI/2L as needed)
☐ Industrial Surface Impoundment (WD, CW, or W)	1 and 2SI (2L as needed)
☐ Class III Surface Impoundment GP (OKGC3T)	GC3T
☐ Surface Coal Mine GP (OKG04)	G04
☐ Concrete Batch Plant GP – Discharge (OKG11)	G11
☐ Concrete Batch Plant GP – Total Retention (OKG11T)	G11
☒ Mobile Concrete Batch Plant GP – Total Retention (OKG11MT)	G11MT
☐ Mobile Concrete Batch Plant GP – Relocation (OKG11MT)	G11MTR
☐ Hydrostatic Test Project GP (OKG27)	G27
☐ Vehicle Wash GP – Discharge (OKG75)	G75
☐ Vehicle Wash GP – Total Retention (OKG75T)	G75
☐ UST Remediation GP (OKG83)	G83
☐ Rock, Sand, & Gravel Quarry GP – Discharge (OKG95)	G95
☐ Rock, Sand, & Gravel Quarry GP – Total Retention (OKG95T)	G95
☐ Industrial User/Pretreatment (OKP003)	Form 1 and 606-008

(check 1 box) ☒ New Pmt ☐ Renewal ☐ Modification ☐ Resubmission ☐ Pmt Conversion

Facility ID No. 6600186O ☐ Relocation

Permit No. OKG11MT87

Old Permit No. (for conversions only) _____

Comments: 13-10314

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WATER QUALITY DIVISION

CONCRETE BATCH PLANT
GENERAL PERMIT OKG11MT AUTHORIZATION

Prepared for:

Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74105

Cemco Portable Concrete Batch Plant

April 2014

Superior Environmental Compliance, Inc.
P.O. Box 1822
Catoosa, OK 74015

252:616-1-3. Engineer Required

Pursuant to 59 O.S., § 475.2 and a ruling by the Oklahoma State Board of Registration for Professional Engineers and Land Surveyors, the design and closure activities required by this chapter constitute the practice of engineering and thus, require the seal and signature of an engineer registered to practice in the State of Oklahoma.

SUBCHAPTER 3. PERMIT PROCEDURES

Section
252:616-3-1. Requirement to obtain a permit
252:616-3-2. Duration of permit and renewal
252:616-3-3. Fees
252:616-3-4. Applications

252:616-3-1. Requirement to obtain a permit

(a) Permits are required for the construction, installation, modification, operation and closure of any industrial wastewater system and are processed according to the Uniform Permitting Act, Title 27A § 2-14-101, and the Tier classifications listed in OAC 252:4-7. This Chapter contains the standards to be met. Industrial wastewater system requirements under this Chapter may be issued as components of discharge permits issued under OAC 252:606.

(b) Instream sand and gravel facilities using hydraulic dredging that have applied for a Section 404 permit pursuant to the Clean Water Act and other sand and gravel facilities that completely operate outside the wetted perimeter of a water body may seek coverage under only the DEQ's Multi-Sector General Permit for Industrial Activities, unless the sand and gravel operation:

(1) has a point source discharge of process water to waters of the state, in which case a discharge permit, pursuant to OAC 252:606, is also required, or

(2) utilizes surface impoundment(s) that store wastewater from processes other than the washing of sand and/or gravel, in which case a surface impoundment permit, pursuant to the requirements of this Chapter, is also required.

252:616-3-2. Duration of permit and renewal

Industrial wastewater treatment permits issued pursuant to this Chapter shall be for a term of no more than five years and may be renewed upon receipt of proper and timely application according to criteria and provisions of this Chapter and applicable law. An application for renewal of an existing permit shall be filed at least 180 days prior to the expiration date of the existing permit. If a proper and complete application for renewal is filed, the existing permit shall continue in effect unless otherwise terminated, modified, suspended or revoked and reissued.

252:616-3-3. Fees

(a) **Application fees.** Application fees for new industrial wastewater system permits or to renew existing industrial wastewater system permits are non-refundable and are set forth below:

(1) Class I - $300.00
(2) Class II - $200.00
(3) Class III and authorizations under a general permit - $100.00 1051-4609
(4) Class V - $300.00

(b) **Annual fees.** Permit holders shall submit payment to DEQ for annual fees upon receipt of an invoice from DEQ. Payments for annual fees received by DEQ shall be applied to the twelve-month period following the due date of the initial invoice issued by DEQ, but not past the expiration of the permit. Failure to pay an annual fee may result in suspension or termination of the permit. The annual fees are set forth below.

(1) **Industrial tank systems.** The annual fees for industrial tank systems are as follows:
(A) Class I or II - $970.00
(B) Class III - $330.00

Summary

Greenhill Concrete Products, Inc. was recently awarded a contract to provide approximately 56,000 cubic yards of concrete for construction of the new Macy's Warehouse in Owasso, Oklahoma. Greenhill owns a Cemco Model 220 Portable Concrete Batch Plant that has been in service as a backup plant for Greenhill's stationary batch plant located at 5407 N. 145th East Avenue in Owasso. This plant has been included in the Owasso facility's OKG11 total retention discharge permit.

With the relocation of the Cemco plant to leased property adjacent to the Macy's project site at 7920 E. 76th Street North in Owasso, Greenhill Concrete is seeking a General Discharge Permit under OKG11MT for a washout pit at this location. Dimensions of the proposed washout pit (See Attachment 2) are 16' x 16' x 8'. Given the short cycle distance associated with this project, truck washout will only be required at the end of the work day or when the truck is temporarily removed from service during the day. Pit water may be used for onsite dust suppression. The property drains southward to an unnamed tributary of Ranch Creek, a first-order tributary of Bird Creek.

The plant will be activated on or about May 26, 2014 and concrete work should be completed on or about September 15, 2014. Maximum daily concrete production during this period will be 1,000 cubic yards. Plant water will be obtained from a 12-inch diameter Tulsa County water line located adjacent to East 76th Street North.

In addition to the concrete plant, the facility will include three pneumatic cement trailers or "pigs", a chiller, a batch trailer, a power generation unit, a frac tank, a frontend loader and six mixer trucks.

At the conclusion of the project, the Cemco plant will either be relocated to Greenhill's fixed plant site and the General Portable Concrete Batch Plant discharge permit terminated or it will be moved to another project site. In either event, the closure plan included in Attachment 4 will be implemented for this project site.

FORM 616-G11MT	OKLAHOMA DEQ	APPLICATION FOR AUTHORIZATION UNDER GENERAL PERMIT NO. OKG11MT MOBILE CONCRETE BATCH PLANTS

A. TYPE OF AUTHORIZATION REQUESTED (Applies to all applicants)

NEW		RENEWAL							
	X								

B. MANUFACTURER, MAKE, MODEL, AND SERIAL NUMBER OF MOBILE BATCH PLANT (Applies to all applicants, provide this same information each time this plant is moved to a new location)

Cemco Model 220, SN-11420502

C. FACILITY CONTACT (Applies to all applicants)

1. NAME & TITLE	2. PHONE (area code & number)
Kenny Henderson, Production Manager	918-513-1987

D. FACILITY MAILING ADDRESS (Applies to all applicants)

1. STREET OR P.O. BOX	2. TELEFAX (area code & number)	
P.O. Box 10	918-266-6482	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Catoosa	OK	74015

E. TEMPORARY JOB SITE LOCATION (applies to all applicants)

1. STREET, ROUTE NO., OR OTHER SPECIFIC IDENTIFIER	2. COUNTY	
Macy's Warehouse Project, 7920 E. 76th St. North	Tulsa	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Owasso	OK	74055

6. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)

NW/4, SW/4, NE/4, and NE/4, SE/4, NW/4, Section 35, T21N, R13E, Tulsa County

F. OPERATOR INFORMATION (Applies to all applicants)

1. NAME	2. Is the operator also the owner?			
Greenhill Concrete Products, Inc.	YES	X	NO	

3. STATUS OF OPERATOR (enter appropriate letter in box; if "Other," specify)			4. PHONE (area code & number)
F = FEDERAL S = STATE P = PRIVATE	M = PUBLIC (other than federal or state) O = OTHER (specify)	P (specify)	918-266-6861

5. STREET OR P.O. BOX	6. TELEFAX (area code & number)
P.O. Box 10	918-266-6482

7. CITY OR TOWN	8. STATE	9. ZIP CODE	G. Is facility located on Indian land?			
Catoosa	OK	74015	YES		NO	X

H. PLANT DESCRIPTION (Applies to all applicants)

1. Attach a list that provides a description of all equipment that is part of the mobile concrete batch plant to receive a permit.

I. SIC CODES (4-digit, in order of priority) (Applies only if the facility has activities in addition to concrete batching)

1. FIRST		2. SECOND	
(number) 3273	(specify) Mobile Concrete Batch Plant	(number)	(specify)

J. STORMWATER PERMITTING (Applies to all applicants)

Does the temporary job site facility have a stormwater multi-sector general permit?	YES		NO	X	PERMIT NO.	Will file NOI and Pollution Prevention Plan prior to beginning plant operation on 5/26/2014.

RECEIVED
APR 25 2014
WATER QUALITY DIVISION
Date Stamp

FOR OFFICIAL USE ONLY

AUTHORIZATION NO.	FACILITY ID NO.
OKG11MT____	I- ENGINEER: _____

K. NATURE OF BUSINESS (Applies to all applicants)

1. PRODUCTS AND SERVICES

Production of ready-mix concrete for new Macy's Warehouse Facility.

2. FACILITY OPERATIONS

a. Process/Operation	b. Product	c. Daily Quantity (units)
Batch mixing of cement, fly ash, aggregates, appropriate additives to comply with project concrete specifications	Ready-mix concrete	500-1,000 cy

d. Briefly describe any practices to be used for recycling/reuse of wastewater (concrete make-up water, wash water, reuse for construction/stabilization, land application for dust suppression, etc.)

Water generated by truck washing at the washout pit will be used for onsite dust suppression. Because of the short cycle times, truck washout will only occur at the end of the day or when the truck is removed from daily service.

e. Briefly describe facility housekeeping practices. Indicate whether mix plant area housekeeping uses dry clean-up or water washdown. If water washdown is used, indicate whether and how washdown water is segregated from mix plant area stormwater.

Normally dry methods will be used for mix plant area clean-up. If water washdown is used, the water will be diverted to the washout pit. The onsite frontend loader will be used to police aggregate stockpiles.

L. SOURCES OF WATER SUPPLY AND AMOUNT USED (Applies to all applicants)

Identify all sources of facility water by entering the appropriate letter(s) in the boxes below and then providing the appropriate description(s), as indicated in parentheses. List each source on a separate line. If you have more than one source of a given type, indicate this by entering the letter, followed by two digits (e.g., if your water comes from three wells, the sources would be indicated as G01, G02, and G03). For each source, estimate of the average daily use. Continue on additional sheets if needed.

G = GROUNDWATER WELL (legal description of well location)
S = SURFACE WATER (name of stream, river, lake, etc., and legal description of intake)
P = PUBLIC WATER SUPPLY (name of entity from which water is obtained)
W = WASTEWATER TREATMENT PLANT (name of entity from which water is obtained)
O = OTHER (source of supply, and legal description if applicable)

1. SOURCE	2. DESCRIPTION	3. AVG. DAILY USE (GPD)
P	Tulsa County	21,000 GPD average

M. INVENTORY OF CHEMICALS AND RAW MATERIALS (Applies to all applicants)

1. List all chemical compounds and raw materials in containers of 55 gallons or more, used in plant operations and stored outside a building (e.g., solvents, cleaning compounds, water treatment chemicals). Describe the storage location and the purpose for which each chemical is used. Continue on additional sheets if needed.

Air Entraining Admixture - 1,000-gallon polyethylene tank in control trailer.
Water Reducing Admixture - 1,000-gallon polyethylene tank in control trailer.
Aggregates in stockpiles and fly ash and cement in an AST and pneumatic trailers.

2. Attach Material Safety Data Sheets (MSDS) for any additives, detergents, spray oils, or treatment chemicals used.

N. CLOSURE PLAN

Part I, Section B (7) of the general permit requires that a closure plan that will be utilized at each temporary job site be submitted as part of the initial application submittal. The plan must receive DEQ approval before being implemented.

O. OTHER DISPOSAL METHODS (Applies to all applicants)

Briefly describe any other methods of waste disposal used by your facility that have not been previously covered. Examples include disposal wells, tank systems (with or without leach fields), aboveground or underground storage tanks, and waste hauling. Include information on the nature and volume of wastes disposed of by each of these other methods. Continue on additional sheets if necessary.

Sanitary requirements will be met through use of onsite Port-a-Potties that will be serviced on a regular basis by the rental company.

P. FACILITY LOCATION WHERE PLANT WILL BE LOCATED WHEN NOT AT A JOB SITE (Applies to all applicants)

1. STREET, ROUTE NO., OR OTHER SPECIFIC IDENTIFIER

5411 N. 145th East Avenue

2. CITY OR TOWN

Owasso

3. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)

NW/4, Section 10, Township 20 North, Range 14 East, Rogers County

Q. DEQ LANDOWNER NOTIFICATION AFFIDAVIT (Applies to all applicants)

1. Does applicant own all land subject to the application:	Yes		No	X

If yes, proceed to section R. If no, proceed to part 2 of this section.

2. Application(s) for which the applicant does not own all the land subject to the application must notify the owner(s) of leases and/or pipeline right-of-ways that a permit application has been submitted to the DEQ. The basis for this requirement is Title 27A of the Oklahoma Statutes, § 2-14-103(9), as described in OAC 252:004-7-13(c). DEQ Form 100-810 shall be used for this purpose and is available on the DEQ web page.

R. CERTIFICATION (Applies to all applicants)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. NAME & OFFICIAL TITLE (type or print)	2. SIGNATURE	3. DATE SIGNED
Matt Ritchie, Materials Manager		4/21/14

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II or III permit applicants must provide notice to the landowner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:4-7-13 (b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)
	My application does not involve any land.
	My application involves only land owned by me (or applicant business).
X	I have a current lease given to accomplish the permitted purpose.
	I have a current easement given to accomplish the permitted purpose.

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	X	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		

LANDOWNER AFFIDAVIT CERTIFICATION			
I, as the applicant or an authorized representative of the applicant, hereby certify that I own the real property, have a current lease or easement which is given to accomplish the permitted purpose (per Option A above), or have provided legal notice to the landowner(s) (per Option B above) about the permit application for the facility described below.			
Company Name	Greenhill Concrete Products, Inc.	Facility Name	Greenhill Cemco Concrete Batch Plant
Facility Address or Legal Description.	7920 E. 76th Street North, Owasso, OK 74055		
Responsible Official (signature)		Date Signed	4/21/14
Responsible Official (typed)	Matt Ritchie	Title	Materials Manager

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) _____

(Applicant name) _____ has filed a permit application with the Oklahoma Department of Environmental Quality for (Facility Name) _____ facility.

This application involves the land owned by you located at:

Address or Legal Description: _____

_____

Signed: _____ Date: _____

ATTACHMENT 1

Equipment List

Equipment List

1. Cemco Model 220 Concrete Batch Plant
2. Pneumatic Trailers for Cement (3)
3. Batch Trailer
4. Generator
5. Chiller Unit
6. Frac Tank
7. Frontend Loader
8. Six Mixer Trucks

ATTACHMENT 2

Site Figures

Greenhill Concrete Batch Plant

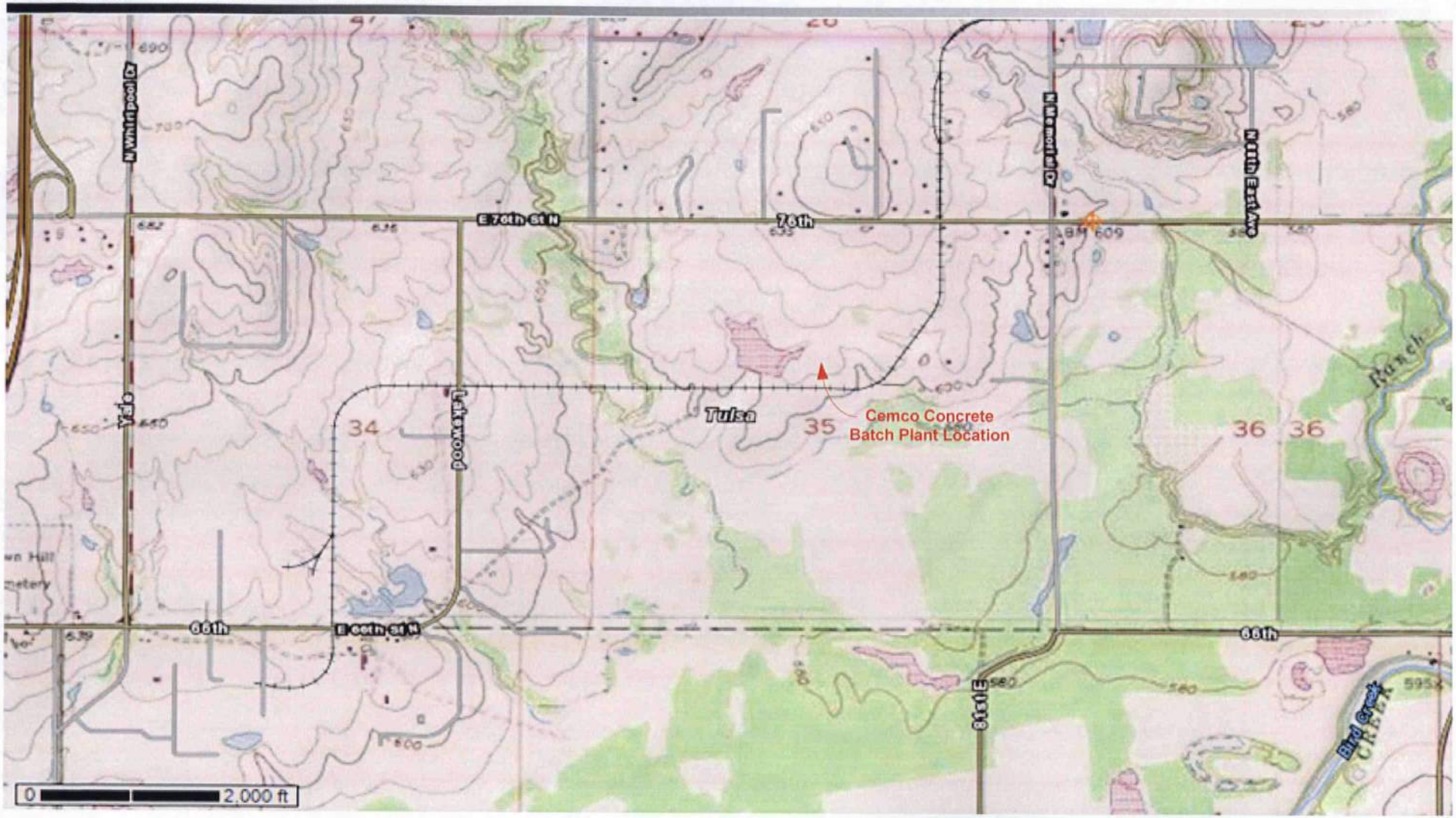


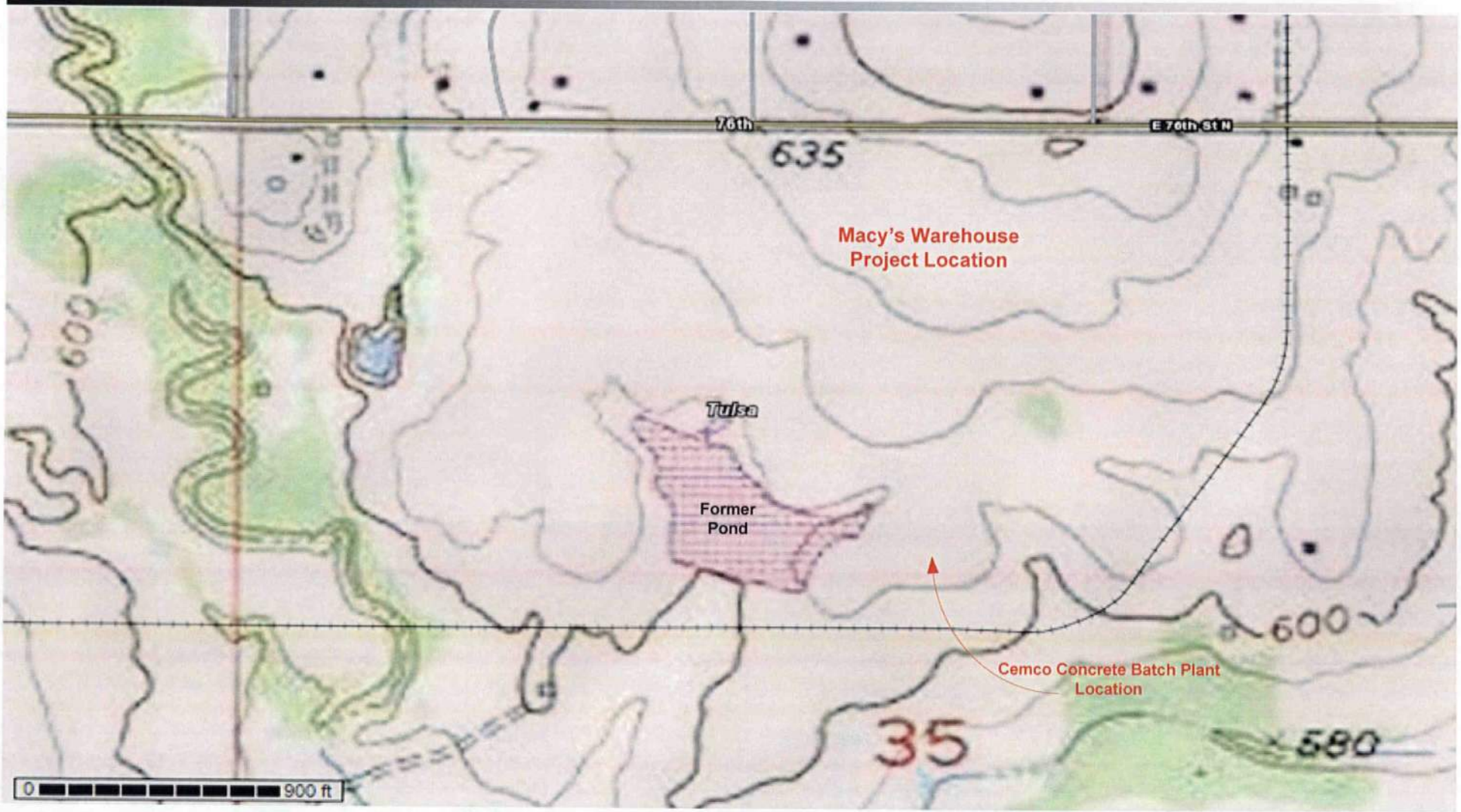
Figure 1

Vicinity Map

April 17, 2014

N

Site Location: SIMCO Concrete Batch Plant



NOTE: Pond was removed during site grading

Figure 2

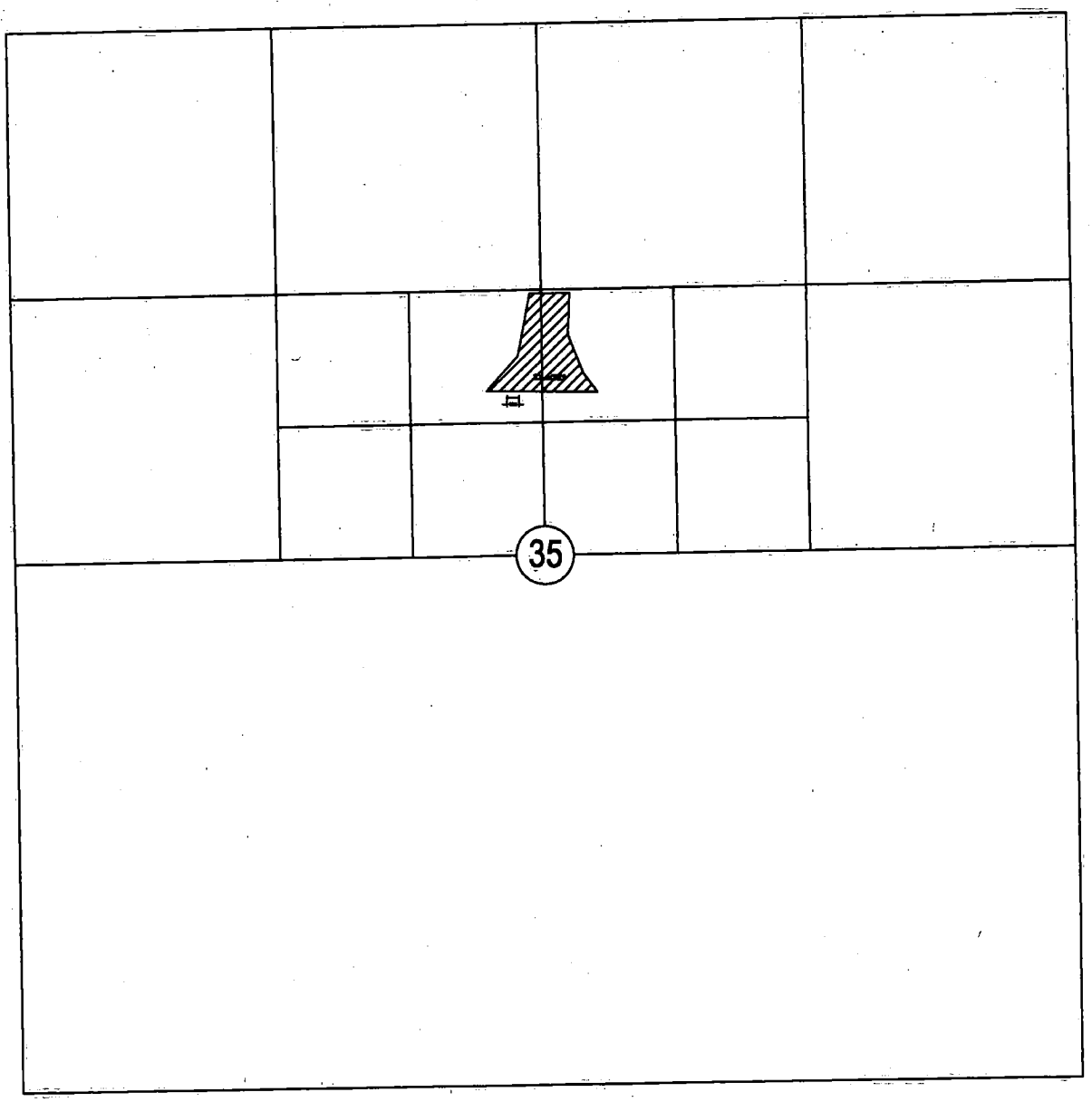
Site Topo Map

April 17, 2014

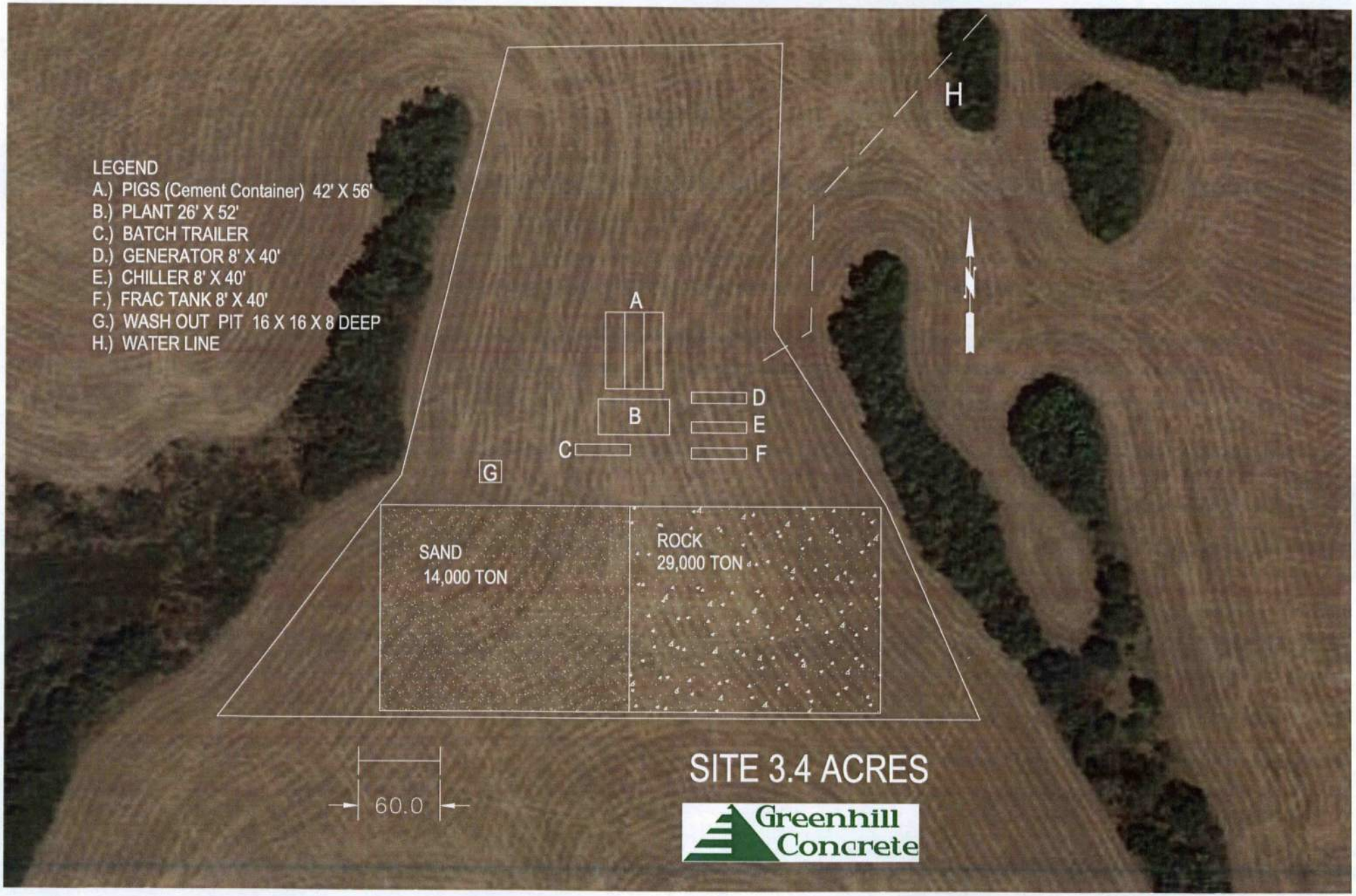
N

R 13 E

T
21
N



PLANT SITE LOCATION


LEGEND
A.) PIGS (Cement Container) 42' X 56'
B.) PLANT 26' X 52'
C.) BATCH TRAILER
D.) GENERATOR 8' X 40'
E.) CHILLER 8' X 40'
F.) FRAC TANK 8' X 40'
G.) WASH OUT PIT 16 X 16 X 8 DEEP
H.) WATER LINE
A
B
C
D
E
F
G
H
SAND
14,000 TON
ROCK
29,000 TON
60.0
SITE 3.4 ACRES
Greenhill Concrete

ATTACHMENT 3

Copies of MSD Sheets

ATTACHMENT 3

Copies of MSD Sheets

BASF
The Chemical Company

MB-AE™ 90

Version 1.2

06/27/2006

1. PRODUCT AND COMPANY INFORMATION

Company	:	**BASF Corporation** 23700 Chagrin Blvd BEACHWOOD, OH 44122
Telephone	:	216-839-7500
Emergency telephone number	:	(800) 424-9300 (703) 527-3887 (Outside Continental US)
Product name	:	MB-AE™ 90
MSDS ID No.	:	10059
TSCA Inventory	:	All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian DSL	:	All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

2. HAZARDOUS INGREDIENTS

Does not contain hazardous chemicals as defined by 29 CFR 1910.1200 and WHMIS.

3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH	FLAMMABILITY	PHYSICAL HAZARD
	1	0	0

WHMIS Class	:	D2B
Primary Routes of Entry	:	Inhalation Eye contact Skin contact

Effects of Overexposure

Inhalation	:	Can cause slight irritation.
Skin	:	Can cause slight irritation.
Eyes	:	Can cause slight irritation.
Ingestion	:	Can cause slight irritation.
Chronic exposure	:	No known information available.

4. FIRST AID MEASURES

Eye contact	:	Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin contact	:	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
Ingestion	:	Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
Inhalation	:	Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point	:	not applicable
Autoignition temperature	:	not applicable
Lower explosion limit	:	not applicable
Upper explosion limit	:	not applicable
Suitable extinguishing media	:	Use extinguishing agent suitable for type of surrounding fire.
Fire and Explosion Hazards	:	Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.
Special Fire-fighting Procedures	:	As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Wear appropriate protective equipment (refer to section 8). Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

7. HANDLING AND STORAGE

Handling	:	Keep out of reach of children. For personal protection see section 8.
Storage	:	Keep tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear as appropriate: impervious gloves
Body Protection	:	Wear as appropriate: impervious clothing preventive skin protection
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	dark brown
Physical State	:	liquid
Odor	:	none
pH	:	10.3 - 11.5
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	212 °F (100 °C)
Freeze Point	:	32 °F (0 °C)
Water solubility	:	completely soluble
Specific Gravity	:	1.012 - 1.020
Viscosity	:	no data available
Evaporation rate	:	no data available
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied	:	0 g/l

(less water and exempt solvents)

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Prolonged exposure to high temperatures
Materials to avoid	:	strong acids metals
Hazardous decomposition products	:	Hydrogen in contact with aluminum or zinc. Oxides of carbon nitrogen oxides (NOx)
Hazardous polymerization	:	Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Product	Type	Value	Species	Exposure time
	LC50	no data available		

Acute oral toxicity

Product	Type	Value	Species
	LD50 (Oral)	no data available	

Acute dermal toxicity

Product	Type	Value	Species
	LD50 (Dermal)	no data available	

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	: Proper shipping name	Not regulated
IATA	: Proper shipping name	Not regulated

15. REGULATORY INFORMATION

SARA 311/312 (RTK)
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD

SARA 313
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

This product contains no chemicals subject to the SARA 313 supplier notification requirements.

CERCLA
CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

RQ	CAS No.	Chemical Name

No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No.	Chemical Name

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65
The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

CAS No.	Chemical Name

16. OTHER INFORMATION

Legend : N.E. - Not Established
TLV - Threshold Limit Value
STEL - Short Term Exposure Limit

BASF
The Chemical Company

MB-AE™ 90

Version 1.2

08/27/2006

PEL = Permissible Exposure Limit
CEIL = Ceiling

Prepared By : Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

End of MSDS.

POLYHEED 997

Version 1.8

11/05/2007

1. PRODUCT AND COMPANY INFORMATION

Company	:	BASF Construction Chemicals, LLC Admixture Systems 23700 Chagrin Blvd BEACHWOOD, OH 44122
Telephone	:	216-839-8000
Emergency telephone number	:	BASF ER HOTLINE: 800-832-4357 CHEMTREC: 800-424-9300 CHEMTREC (Outside Continental US): 703-527-3887
Product name	:	POLYHEED 997
MSDS ID No.	:	10052
TSCA Inventory	:	All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian DSL	:	All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

2. HAZARDOUS INGREDIENTS

Chemical	CAS No.	TLV	STEL	PEL	CEIL	Weight %
SODIUM NITRATE	7631-99-4		N.E.	N.E.	N.E.	10.00 - 30.00 %
SODIUM THIOCYANATE	540-72-7	N.E.	N.E.	N.E.	N.E.	3.00 - 7.00 %
ETHYLENEDIAMINE	107-15-3	10 ppm	N.E.	10 ppm	N.E.	1.00 - 5.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH	FLAMMABILITY	PHYSICAL HAZARD
	2	0	0

WHMIS Class : D2B

Primary Routes of Entry : Eye contact
Skin contact

Effects of Overexposure

Inhalation : No hazard anticipated in normal industrial use.

Skin : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Eyes : Can cause slight to moderate transient irritation, redness, tearing and blurred vision.

Ingestion : Can cause slight irritation.

Chronic exposure : No known information available.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
SODIUM NITRATE	N.E.	N.E.	N.E.	N.E.
SODIUM THIOCYANATE	N.E.	N.E.	N.E.	N.E.
ETHYLENEDIAMINE	Not classifiable as a human carcinogen.	N.E.	N.E.	N.E.

4. FIRST AID MEASURES

Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.

Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : does not flash

Autoignition temperature : not applicable

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Suitable extinguishing media : Use extinguishing agent suitable for type of surrounding fire.

Fire and Explosion Hazards : Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.

Special Fire-fighting Procedures : As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Wear appropriate protective equipment (refer to section 8). Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

7. HANDLING AND STORAGE

Handling : Keep out of reach of children. For personal protection see section 8.

Storage : Keep tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear as appropriate: impervious gloves
Body Protection	:	Wear as appropriate: impervious clothing preventive skin protection
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	dark brown
Physical State	:	liquid
Odor	:	musty
pH	:	Approx.8
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	212 °F (100 °C)
Freeze Point	:	32 °F (0 °C)
Water solubility	:	completely soluble
Specific Gravity	:	1.27
Viscosity	:	no data available
Evaporation rate	:	no data available
Partition coefficient (n-octanol/water)	:	no data available

VOC Concentration as applied (less water and exempt solvents)	:	0 g/l

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Prolonged exposure to high temperatures
Materials to avoid	:	strong acids and oxidizing agents
Hazardous decomposition products	:	Oxides of carbon. Oxides of sulfur nitrogen oxides (NOx)
Hazardous polymerization	:	Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Product	Type	Value	Species	Exposure time
	LC50	no data available		
Component				
SODIUM NITRATE	LC50	no data available		
SODIUM THIOCYANATE	LC50	no data available		
ETHYLENEDIAMINE	LC50	no data available		

Acute oral toxicity

Product	Type	Value	Species
	LD50 (Oral)	no data available	
Component			
SODIUM NITRATE	LD50 (Oral)	no data available	
SODIUM THIOCYANATE	LD50 (Oral)	no data available	
ETHYLENEDIAMINE	LD50 (Oral)	6,800 mg/kg	

Acute dermal toxicity

	Type	Value	Species
Product	LD50 (Dermal)	no data available	
Component			
SODIUM NITRATE	LD50 (Dermal)	no data available	

SODIUM THIOCYANATE	LD50 (Dermal)	no data available	
ETHYLENEDIAMINE	LD50 (Dermal)	730 mg/kg	rabbit

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	: Proper shipping name	Not regulated
IATA	: Proper shipping name	Not regulated

15. REGULATORY INFORMATION

SARA 311/312 (RTK)
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD

SARA 313
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Weight %	CAS No.	Chemical Name
10.00 - 30.00 %	7631-99-4	SODIUM NITRATE

CERCLA
CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

RQ	CAS No.	Chemical Name
5,000 lbs	107-15-3	ETHYLENEDIAMINE

No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No.	Chemical Name

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65
The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

CAS No.	Chemical Name

16. OTHER INFORMATION

Legend	:	N.E. - Not Established TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit CEIL - Ceiling
Prepared By	:	Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

End of MSDS.

BASF
The Chemical Company

POZZOLITH® NC 534 (AKA: CONSET NC)

Version 2.3

06/27/2006

1. PRODUCT AND COMPANY INFORMATION

Company	:	**BASF Corporation** 23700 Chagrin Blvd BEACHWOOD, OH 44122
Telephone	:	216-839-7500
Emergency telephone number	:	(800) 424-9300 (703) 527-3887 (Outside Continental US)
Product name	:	POZZOLITH® NC 534 (AKA: CONSET NC)
MSDS ID No.	:	10033
TSCA Inventory	:	All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian DSL	:	All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

2. HAZARDOUS INGREDIENTS

Chemical	CAS No.	TLV	STEL	PEL	CEIL	Weight %
CALCIUM(II) NITRATE (1:2)	10124-37-5		N.E.	N.E.	N.E.	30.00 - 60.00 %
SODIUM THIOCYANATE	540-72-7	N.E.	N.E.	N.E.	N.E.	1.00 - 5.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH	FLAMMABILITY	PHYSICAL HAZARD
	2	0	0

WHMIS Class : D2B

Primary Routes of Entry : Inhalation
Eye contact
Skin contact

Effects of Overexposure

Inhalation	:	Vapors can be irritating to respiratory tract and mucous membranes.
Skin	:	Can cause slight to moderate irritation. Prolonged or repeated skin contact tends to remove skin oils possibly leading to irritation and dermatitis.
Eyes	:	Can cause slight to moderate transient irritation, redness, tearing and blurred vision.
Ingestion	:	Intake can cause gastrointestinal irritation and nausea.
Chronic exposure	:	No known information available.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
CALCIUM(II) NITRATE (1:2)	N.E.	N.E.	N.E.	N.E.
SODIUM THIOCYANATE	N.E.	N.E.	N.E.	N.E.

4. FIRST AID MEASURES

Eye contact	:	Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin contact	:	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
Ingestion	:	Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
Inhalation	:	Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point	:	does not flash
Autoignition temperature	:	not applicable
Lower explosion limit	:	not applicable
Upper explosion limit	:	not applicable
Suitable extinguishing media	:	Use extinguishing agent suitable for type of surrounding fire. Keep containers and surroundings cool with water spray.
Fire and Explosion Hazards	:	Containers can build up pressure if exposed to heat (fire). Cool closed containers exposed to fire with water spray.
Special Fire-fighting Procedures	:	As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up	:	Wear appropriate protective equipment (refer to section 8). Take action to eliminate source of leak; prevent from entry into open streams or sewers; contain spill by diking; vacuum up liquid or use absorbent media; remove to storage for disposal and rinse residual stain with water.

7. HANDLING AND STORAGE

Handling	:	Keep out of reach of children. For personal protection see section 8.
Storage	:	Keep tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection	:	Wear as appropriate: safety glasses with side-shields goggles face-shield
Hand protection	:	Wear as appropriate: impervious gloves
Body Protection	:	Wear as appropriate: impervious clothing preventive skin protection
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	dark brown
Physical State	:	liquid
Odor	:	none
pH	:	Approx.8.5
Odor Threshold	:	no data available
Vapor Pressure	:	no data available
Vapor Density	:	Heavier than air
Boiling point/range	:	212 °F (100 °C)
Freeze Point	:	-29 °F (-34 °C)
Water solubility	:	completely soluble
Specific Gravity	:	1.399

Viscosity	:	no data available
Evaporation rate	:	no data available
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	Note: no data available

10. STABILITY AND REACTIVITY

Stability	:	Stable under recommended storage conditions.
Conditions to avoid	:	Prolonged exposure to high temperatures
Materials to avoid	:	strong acids and oxidizing agents organic materials
Hazardous decomposition products	:	sulphur oxides nitrogen oxides (NOx) Oxides of carbon
Hazardous polymerization	:	Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Product / Component	Type	Value	Species	Exposure time
Product	LC50	no data available		
Component				
CALCIUM(II) NITRATE (1:2)	LC50	no data available		
SODIUM THIOCYANATE	LC50	no data available		

Acute oral toxicity

Product / Component	Type	Value	Species
Product	LD50 (Oral)	no data available	
Component			
CALCIUM(II) NITRATE (1:2)	LD50 (Oral)	no data available	
SODIUM THIOCYANATE	LD50 (Oral)	no data available	

Acute dermal toxicity

	Type	Value	Species
Product	LD50 (Dermal)	no data available	
Component			
CALCIUM(II) NITRATE (1:2)	LD50 (Dermal)	no data available	
SODIUM THIOCYANATE	LD50 (Dermal)	no data available	

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	: Proper shipping name	Not regulated
IATA	: Proper shipping name	Not regulated

15. REGULATORY INFORMATION

SARA 311/312 (RTK)
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD

SARA 313
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Weight %	CAS No.	Chemical Name
30.00 - 60.00 %	10124-37-5	CALCIUM(II) NITRATE (1:2)

CERCLA
CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

BASF
The Chemical Company

POZZOLITH® NC 534 (AKA: CONSET NC)

Version 2.3

06/27/2006

RQ	CAS No.	Chemical Name

No CERCLA chemicals exist in this product above reportable concentrations.

TSCA Section 12(b) Export Notification
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No.	Chemical Name

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65
The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

CAS No.	Chemical Name
90-43-7	2-BIPHENYLOL
7440-47-3	CHROMIUM

16. OTHER INFORMATION

Legend : N.E. - Not Established
TLV - Threshold Limit Value
STEL - Short Term Exposure Limit
PEL - Permissible Exposure Limit
CEIL - Ceiling

Prepared By : Environment, Health and Safety Department

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the manufacturer's knowledge, or is obtained from sources believed by the manufacturer to be accurate and is not intended to be all inclusive. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The manufacturer assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, the manufacturer assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

End of MSDS.

Attachment C:

Closure Plan

616-G11MT Supplemental Information - Section N
CLOSURE PLAN - Mobile Concrete Batch Plant
*** REVISED 11/23/11 ***
RexCon Model S-RM, Serial # 2185
For Use on ODOT Project

BACKGROUND:

The activity associated with these projects Includes removal of existing pavements, surface grading, and concrete paving on HWY 7 in Comanche County Oklahoma. Sherwood Construction, the prime contractor on the project, will self-perform the majority of the work, including the production of concrete for the pavement. Sherwood leased the land located at the Northeast Quarter of Section 3, T-1-N, R-10-W in Comanche County Oklahoma (Attachment A).

ROUTINE TREATMENT AND REMOVAL:

The batch plant site has been surfaced with asphalt millings. The millings provide a stable platform on which to travel and minimize the tracking of soil material off site. They also virtually eliminate the potential for erosion of onsite runoff. Slit fences will be installed along the perimeter of the surfaced area as an added precaution to capture any sediment resulting from site runoff. For control of wastewater generated from mixing plant and truck clean-out, a temporary impoundment will be constructed in accordance with permit guidelines (Attachment D). The solid materials (sand, rock, cement) collected in the impoundment area are "nonpollute" In nature and will not require special treatment. They will be disposed in a landfill suited for that type of material or may be spread over the surfaced area to provide additional aggregate thickness and/or stability. Accumulated water in the impoundment area will be pumped into a water truck and used to water the onsite plant area to help alleviate the dust control problem, but only after being checked for pollutants (oil/ grease sheen or globules) by one of the onsite response members before it is pumped from the impoundment. The inspection log shall record this inspection and the estimated quantity of water removed from the impoundment. Any abnormal notice in the impoundment will require that treatment or corrective action be taken immediately. Treatment for chemicals or oils on the water's surface will be accomplished by either pumping off the surface residue or by use of an absorption buoy system. In either case it would be per EPA approved methods and disposed per EPA requirements.

MONITORING:

The storm water runoff control devices and impoundment criteria will be monitored and modified as conditions require. All concrete additives stored in the onsite trailer will be monitored to insure proper storage and handling. The impoundment area will also be monitored to insure no chemicals or oils have contaminated the standing water. Periodic monitoring of the impoundment area will be recorded on a log sheet and kept at the plant site at all times. Monitoring will be done weekly and recorded in an inspection log, with the exception that after a heavy rain. After each of those events an inspection shall be made and recorded. This report will be made available to the DEQ upon request.

CLOSURE:

Upon completion of batch plant operations, the site will be restored to a condition equivalent to that prior to occupation. Restoration will include removal of wastewater and sediment/sludge from the impoundment area and eradication of the impoundment.

Wastewater-similar to monitoring, active treatment and removal as stated above, the wastewater will be visually inspected for non-concrete related pollutants prior to its removal from the impoundment. Any wastewater remaining after natural evaporation occurring prior to closure will be pumped out and used for dust suppression at the site.

Sludge - Depending on the solidity of the sediment/sludge remaining in the impoundment upon removal of the waste water, the material will be removed and either taken to a landfill, a recycling location, or left on site in a manner acceptable to the Oklahoma D.O.T. -if the later is an allowable option.

Backfill- Once all the water, solid materials and the liner have been removed from the impoundment area, the area will be filled. If dikes were used to construct the Impoundment, they will be removed or leveled to restore the area to its prior drainage patterns. If an excavation was used, the pit will be filled with the materials originally removed. If there were significant strata differences within the excavation's limits, the excavated material will be replaced in an order to restore the continuity of the layers. The replaced material will be co-mingled with the in-situ material and will be compacted to a similar density. Once the grading is finished in this area, the area will be revegetated or resurfaced to its original condition.

DISPOSAL:

It is not anticipated that a disposal site will be required for this site since all the materials used In the process of making ready mix concrete are non-hazardous materials. If for some reason a disposal site is required, we will notify the DEQ immediately of this change and will revise this plan to reflect this change.

CERTIFICATE OF CLOSURE:

An affidavit of closure will be submitted within 10 days after closure of all temporary impoundments.

ATTACHMENT 4

Closure Plan

616-G11MT Supplemental Information - Section N
CLOSURE PLAN - Mobile Concrete Batch Plant
*** REVISED 4/18/14 ***
Cemco Model 220; S/N 11420502

BACKGROUND:

The activity associated with this project is producing the concrete required for the Macy's Fulfillment Center in Owasso, OK for Lithko Construction. Greenhill Concrete has an agreement to use the land for the plant with Owasso Land Trust.

ROUTINE TREATMENT AND REMOVAL:

The batch plant site has been surfaced with asphalt millings and/or crushed limestone. The millings/limestone provides a stable platform on which to travel and minimize the tracking of soil material off site. They also virtually eliminate the potential for erosion of onsite runoff. Slit fences will be installed along the perimeter of the millings surfaced area as an added precaution to capture any sediment resulting from site runoff. For control of wastewater generated from mixing plant and truck clean-out, a temporary impoundment will be constructed in accordance with permit guidelines. The solid materials (sand, rock, cement) collected in the impoundment area are "nonpollute" in nature and will not require special treatment. They will be disposed in a landfill suited for that type of material or may be spread over the surfaced area to provide additional aggregate thickness and/or stability. Accumulated water in the impoundment area will be pumped into a water truck and used to water the onsite plant area to help alleviate the fugitive dust control problem, but only after being checked for pollutants (oil/ grease sheen or globules) by one of the onsite response members before it is pumped from the impoundment. The inspection log shall record this inspection and the estimated quantity of water removed from the impoundment. Any abnormal conditions noticed in the impoundment will require that treatment or corrective action be taken immediately. Treatment for chemicals or oils on the water's surface will be accomplished by either pumping off the surface sheen or by use of an absorption buoy system. In either case it would be per EPA approved methods and disposed per EPA requirements.

MONITORING:

The storm water runoff control devices and impoundment criteria will be monitored and modified as conditions require. All concrete additives stored in the onsite trailer will be monitored to insure proper storage and handling. The impoundment area will also be visually monitored to insure no chemicals or oils have contaminated the standing water. Periodic monitoring of the impoundment area will be recorded on a log sheet and kept at the plant site at all times. Monitoring will be done weekly and recorded in an inspection log, with the exception that after a heavy rain (minimum of .5"), an inspection shall be made and recorded. This inspection report will be made available to the DEQ upon request.

CLOSURE:

Upon completion of batch plant operations, the site will be restored to a condition equivalent to that prior to occupation, with the exception of the base material used for stability that the owner has requested that we leave on site. Restoration will include removal of wastewater and sediment/sludge from the impoundment area and eradication of the impoundment.

Wastewater-similar to monitoring, active treatment and removal as stated above, the wastewater will be visually inspected for non-concrete related pollutants prior to its removal from the impoundment. Any wastewater remaining after natural evaporation and prior to closure will be pumped out and used for dust suppression at the site.

Sludge - Depending on the solidity of the sediment/sludge remaining in the impoundment upon removal of the waste water, the material will be removed and either taken to a landfill, a recycling location, or left on site in a manner acceptable to the Oklahoma D.O.T. -if the latter is an allowable option.

Backfill- Once all the water, solid materials and the liner have been removed from the impoundment area, the area will be filled. If dikes were used to construct the Impoundment, they will be removed or leveled to restore the area to its prior drainage patterns. If an excavation was used, the pit will be filled with the materials originally removed. If there were significant strata differences within the excavation's limits, the excavated material will be replaced in an order to restore the continuity of the layers. The replaced material will be co-mingled with the in-situ material and will be compacted to a similar density. Once the grading is finished in this area, the area will be revegetated or resurfaced to its original condition.

DISPOSAL:

It is not anticipated that a disposal site will be required for this site, with the exception of any sediment left in the impoundment, since all the materials used in the process of making ready mix concrete are non-hazardous materials. If for some reason a disposal site is required, we will notify the DEQ immediately of this change and will revise this plan to reflect this change.

CERTIFICATE OF CLOSURE:

An affidavit of closure will be submitted within 10 days after closure of all temporary impoundments.

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

May 5, 2014

Kenny Henderson, Production Manager
Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

Re: DEQ Application No. OKG11MT87
Greenhill Concrete Products, Inc., Rogers County, Oklahoma
Facility ID No. I-66001860

Dear Mr. Henderson:

Your application for an Oklahoma Department of Environmental Quality (DEQ) permit to treat and dispose of wastewater was received by this office on April 25, 2014. As specified in OAC 252:004-7-7 of the DEQ rules, your application has been determined to be complete.

Your Authorization to treat and dispose of wastewater under OPDES General Permit No. OKG11MT is enclosed. The effective date and the expiration date of this Authorization appears on the cover page.

Should you have any questions regarding the Authorization, please contact the Industrial Permits Section at the letterhead address or telephone (405) 702-8100. Should you have any questions regarding compliance with the conditions of this Authorization, please contact the Industrial Enforcement Section at the same address and phone number.

Sincerely,

Carol Paden

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

BT/ab DM/SLT/AR

Enclosure

printed on recycled paper with soy ink

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR DISCHARGE AND/OR DISPOSAL
UNDER GENERAL PERMIT NO. OKG11MT

AUTHORIZATION NO.: OKG11MT87
FACILITY ID NO.: I-66001860

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. §2-6-201 *et seq.*, Oklahoma Uniform Environmental Permitting Act, 27A O.S. §2-14-101 *et seq.*, and the rules of the Oklahoma Department of Environmental Quality (DEQ) promulgated thereunder,

Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

is hereby authorized to operate a mobile concrete batch plant identified as a Cemco Model 220 Batch Plant Serial No. 11420502 and to treat and dispose of industrial wastewater in temporary total retention surface impoundment(s) and to land apply wastewater for dust suppression only.

The wastewater consists of process wastewater and contaminated stormwater runoff associated with the following three common activities: (1) mix plant area washdown (if dry brush cleanup methods are not utilized); (2) truck mixer drum washout; and (3) external truck wash and oil spray down, and is classified as Class III wastewater in accordance with OAC 252:616-1-2.

Discharge of wastewater contained in the authorized surface impoundment(s) to the waters of the state is specifically prohibited. Stormwater discharges not associated with concrete mix plant area washdown, truck mixer drum washout, and external truck wash and oil spray-down will be authorized under the OPDES Stormwater Multi-Sector General Permit.

The facility shall be maintained in accordance with all conditions and provisions set forth in the General Permit No. OKG11MT, and in Parts I, II, and III, hereof.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and the DEQ Rules.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This is a new Authorization.

This Authorization shall become effective on May 5, 2014.

This Authorization shall expire at midnight, on June 7, 2017.

Issued this 5th day of May, 2014.

Carol Paden

Carol Paden, P.E. Manager
Industrial Permits Section
Water Quality Division

PART I
EFFLUENT LIMITATIONS AND OTHER REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Not applicable. Discharge of wastewater contained in the authorized surface impoundment(s) to the waters of the state is specifically prohibited.

SECTION B. SURFACE IMPOUNDMENTS

The use of surface impoundments for treatment and/or disposal of wastewater at mobile concrete batch plants is authorized, subject to additional State requirements as specified below and in General Permit No. OKG11MT, in accordance with OAC 252:616.

1. Wastewater Classification

The wastewater generated from routine operations of mobile concrete batch plants is classified as Class III wastewater in accordance with OAC 252:616-1-2.

2. Construction Requirements

All surface impoundments shall be constructed and maintained in accordance with OAC 252:616-7-1. In addition, the following conditions shall also apply:

a. Inner and outer dike or berm slopes shall not exceed 1 vertical to 2 horizontal (1:2) on all temporary total retention surface impoundments when the temporary job site will be utilized for less than 180 days.

b. Inner and outer dike or berm slopes shall not exceed 1 vertical to 3 horizontal (1:3) on all temporary total retention surface impoundments when the temporary job site will be utilized for greater than 180 days.

Because the berm height will be low it is not necessary to construct berms with flat tops in order to inspect the berms for erosion.

3. Depth to Groundwater

In accordance with OAC 252:616-7-1(4), the bottom of any surface impoundment shall be a minimum of 15 feet above the historic maximum groundwater table. This requirement is waived based on BPJ and the fact that the wastewater is classified as Class III. At no time, shall the bottom of any surface impoundment be built in groundwater.

4. Liner Requirements

A native soil liner may be used for temporary surface impoundments. Liner materials and construction shall be in compliance with requirements of OAC 252:616-7-1(8) and (9) and OAC 252:616-7-2 and 7-3. Concrete liners are allowed at mobile concrete batch plants. However, a concrete liner must be constructed in compliance with requirements of OAC 252:616-7-1(9) and OAC 252:616-7-7.

5. Freeboard Requirements

A minimum freeboard of one (1) foot shall be maintained on all temporary total retention surface impoundments when the temporary job site will be utilized for less than 180 days. If the water level reaches the one (1) foot freeboard level, another impoundment must be constructed and used for any additional wastewater generated at the site.

A minimum freeboard of three (3) feet shall be maintained on all temporary total retention surface impoundments when the temporary job site will be utilized for greater than 180 days. If the water level reaches the three (3) foot freeboard level, another impoundment must be constructed and used for any additional wastewater generated at the site.

6. Other Specific Requirements

a. Wastewater contained in surface impoundments may be recycled for use in concrete make-up or wash water.

b. There shall not be any visible sheen of oil at any time in the surface impoundment(s).

c. Surface impoundments shall not be located in flood ways. If any surface impoundment(s) is located in a flood plain, the permittee shall ensure that the crest elevation of dikes/berms must be at least one foot above the 100-year flood elevation in accordance with OAC 252:616-5-1.

d. The permittee shall restrict access to industrial wastewater systems sites by fences, secured gates, or other reasonable means in accordance with OAC 252:616-5-1(c). The permittee shall also post a sign listing the name of the operator, an emergency phone number, and the DEQ permit number.

SECTION C. LAND APPLICATION AND BENEFICIAL REUSE OF WASTEWATER

Land application of wastewater for dust suppression only at mobile concrete batch plants is authorized, subject to additional State requirements as specified below, in accordance with OAC 252:616-11. The wastewater covered under this Authorization is classified as Class III wastewater in accordance with OAC 252:616-1-2.

a. The wastewater to be land applied shall be free of visible sheen of oil or globules of oil or grease and shall have a pH between 6.5 s.u. and 9.0 s.u.

b. The wastewater to be land applied for dust suppression shall be visually inspected prior to land application. An inspection log shall be maintained at the site and made available to DEQ upon request.

c. There shall be no land application of wastewater in areas where the depth to the maximum seasonal groundwater level is less than two (2) feet in accordance with OAC 252:616-5-1(b)(E).

d. There shall be no land application of wastewater during periods of precipitation or when soil is saturated or frozen.

e. There shall be no runoff of wastewater from the land application sites.

f. The permittee shall keep a log book which records the time and date, the source and the volume of wastewater used, and the area which was dust suppressed. This log book shall be maintained at the site and made available to the DEQ upon request.

The process wastewater that is reused back into the concrete mixture is exempt from monitoring requirements.

SECTION D. RECYCLABLE CONCRETE MATERIAL AND DISPOSAL OF OTHER SOLIDS

Recyclable concrete material recovered from the scatter pile, impoundments and/or other means may be removed from the facility and may also be used by the applicant at the permitted facility at any time. No records are required.

SECTION E. CLOSURE REQUIREMENTS

The permittee shall close all surface impoundment(s) at a temporary job site in accordance with the approved *Closure Plan* within *fifteen (15) days* of moving/relocating of the batch plant at a new job site or temporary location.

Within *ten (10) days* after closure of all temporary impoundments the permittee shall submit a *Certification of Closure* to the DEQ that all impoundments were closed in accordance with their approved *Closure Plan*.

SECTION F. RELOCATION NOTIFICATION

The permittee shall notify the DEQ within *seven (7) days* each time the mobile concrete batch plant is moved to a new location.

The notification document shall include a completed **Form 616-G11MTR** for the new job site.

SECTION G. ACKNOWLEDGEMENT

Within *seven (7) days* after receipt of Form 616-G11MTR, the DEQ will provide a written statement acknowledging receipt of the notification.

PART II
OTHER PERMIT CONDITIONS AND REQUIREMENTS

A. This permit does not convey any exclusive privileges or authorize any injury to property or invasion of rights or any infringement of Federal, State, or local laws or regulations nor does it obviate the requirement to obtain permission from any landowners whose property will be affected by this Permit.

B. Individual Permits

a. Any permittee authorized by this Permit may request to be excluded from the coverage of this General Permit by applying for an individual permit or another type of General Permit if applicable. The permittee shall submit the appropriate OPDES application forms together with the reasons supporting the request to the Water Quality Division of the DEQ.

b. The owner/operator of a mobile concrete batch plant permit that wishes to discharge wastewater at a temporary job site must obtain an individual discharge permit. The permittee shall submit the appropriate OPDES application forms together with the reasons supporting the request to the Water Quality Division of the DEQ.

c. When an individual OPDES permit is issued to a permittee otherwise subject to this General Permit, the applicability of this Permit to that owner or permittee is automatically terminated on the effective date of the individual permit.

d. A mobile concrete batch plant excluded from coverage under this General Permit solely because it already has an individual wastewater disposal permit may request that its individual permit be converted to this General Permit. Upon conversion from the individual permit, this General Permit shall apply and the individual permit will be terminated.

C. Laws and Rules Applicable

The DEQ Rules, as amended, are applicable to and are incorporated by reference into this permit and any Authorizations under it. The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and all amendments of the laws of the State of Oklahoma and the Department of Environmental Quality Rules. The absence of any express reference within this permit to any particular statutory requirement, rule(s), or regulation(s), shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), or regulation(s), to this permit. By DEQ approval, grant, and issuance of this permit, permittee acknowledges responsibility to obtain correct and current copies of applicable DEQ Rules (as amended), provided, however, that permittee further acknowledges that any and all amendments thereto shall become a part of this permit.

ENERCON SERVICES, INC.
An Employee Owned Company

5100 E. Skelly Dr., Suite 450
Tulsa, OK 74135
(918) 665-7693
(918) 665-7232 - Fax
(800) 735-7693

May 10, 2005
ENMISC0336

Ms. Rhonda Jeffries
Environmental Programs Manager
Oklahoma Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly Drive
Tulsa, OK 74105

2005-012-O

RE: Construction Permit Application
Greenhill Materials/Sherwood Construction, Inc.
Operating Permit No. 99-034-O.

Dear Ms. Jeffries:

Attached please find a construction permit application submitted by Enercon Services, Inc. on behalf of our client, Greenhill Materials/Sherwood Construction, Inc. for a quarry and rock crusher facility located in Section 10, Township 20 North, Range 14 East, Rogers County, Oklahoma. This facility has been in operation since 2002 and the accompanying permit application documents equipment changes that have been made at the facility.

Included with this application are an updated Process Flow Diagram and updated Maximum Potential to Emit calculations.

Please contact me (Rbeeson@enercon.com) or Mr. Daryl Worley, Office Engineer (darylw@sherwoodoklahoma.com) if you or your staff have any questions regarding this application.

Sincerely,

ENERCON SERVICES, INC.

Randal J. Beeson
Senior Project Manager

Attachments

CC: D. Worley, Office Engineer

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applicants must provide notice to the landowner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:4-7-13 (b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)
	My application does not involve any land.
	My application involves only land owned by me (or applicant business).
X	I have a current lease given to accomplish the permitted purpose.
	I have a current easement given to accomplish the permitted purpose.

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	X	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
X	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		

LANDOWNER AFFIDAVIT CERTIFICATION					
I, as the applicant or an authorized representative of the applicant, hereby certify that I own the real property, have a current lease or easement which is given to accomplish the permitted purpose (per Option A above), or have provided legal notice to the landowner(s) (per Option B above) about the permit application for the facility described below.					
Company Name		Facility Name			
Facility Address or Legal Description					
Responsible Official (signature)				Date Signed	
Responsible Official (typed)		Title			

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) Estate of John T. Oxley

(Applicant name) Greenhill Materials has filed a permit application with the Oklahoma Department of Environmental Quality for (Facility Name) Greenhill Materials Rock Crushing Facility facility.

This application involves the land owned by you located at:

Address or Legal Description: Section 10, T20N, R14E, Rogers County, OK

Signed: _____ Date: 12 May 05

ESTATE OF
JOHN T. OXLEY
WILLIAMS CENTER TOWER I
SUITE 1305
ONE WEST THIRD STREET
TULSA, OKLAHOMA 74103-3523

August 9, 1999

John R. Curtis
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Re: Greenhill Materials
Quarry rock processing area
Section 10, T20N, R14E
Rogers County, Oklahoma

Dear John:

The owners understand that rock crushing, rock screening, and rock manipulation operations are scheduled to be performed on the referenced property.

Very truly yours,

R. H. Harbaugh, Jr.
Attorney for the Owners

RHH:kp

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

1	COMPANY INFORMATION	Name	Sherwood Construction Company, Inc.			
Mailing Address	P.O. Box 10					
City	Catoosa	State	OK	Zip	74015	

2	APPLICATION TYPE (check one)								
	Applicability Determination	X	Construction		Operation	X	Modification		Relocation
Est. Date of Construction/Modification Start				Completion					
Operational Start-up Date									

3	CONFIDENTIAL INFORMATION INCLUDED		YES	X	NO

4	TIER CLASSIFICATION		Tier I		Tier II		Tier III		N/A AD only
FACILITY TYPE		X	Minor				Major		

5	FEES SUBMITTED	$1,000	CHECK #		DATE	

6	TECHNICAL CONTACT	Name	Daryl Worley, Office Engineer		
Phone	918-266-6861	Fax	918-266-6482		
Company Name	Sherwood Construction Company, Inc.				
Street Address	4716 N. 193rd East Avenue				
City	Catoosa	State	OK	Zip	74015

7	FACILITY INFORMATION	Name	Greenhill Materials				
Description	Limestone quarry and rock crushing facility						
SIC Code(s)	1422						
Contact Person	Daryl Worley		Title	Office Engineer		Phone	918-266-6861
Legal Description	Section	10	Township	20N		Range	14E
Physical Address or Driving Directions	From intersection of 193rd E. Ave. and Hwy 266 (Port Road), proceed west on 266 approximately 2.1 miles and turn right at the entrance to the crusher plant.						
City or Nearest Town	Catoosa, OK		Zip	74015		County	Rogers

8	Describe Any Residence, Park, School, etc. within ¼ mile	None located within ¼ mile

9	LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
99-034-O	

10	APPLICATION CERTIFICATION			
This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.				
Responsible Official (signature)				
Responsible Official (typed)	John R. Curtis		Date	12 May 05
Responsible Official Title	Manager		Phone	918-266-6861

AIR QUALITY DIVISION
CLASSIFICATION OF AIR QUALITY APPLICATIONS

This form can be used to make a preliminary determination of the Tier classification. For air quality permits, Tier I basically includes minor sources and most synthetic minors. Tier II covers major sources, and Tier III covers new major sources requiring PSD review. Note that if your application involves land and you do not own all of the land that is the subject of your application, you must notify the owners. Even you do not have to give landowner notice, all Tier I, II, or III applicants must fill out and return a landowner affidavit (DEQ Form #100-810). In addition, note that all Tier II and III applications require public notice of the application in one newspaper local to the site or facility as soon after the filing date as possible. Other public participation requirements, such as notice of draft and proposed permit, and notice of public meeting may also be required. Contact our office for more information on these requirements.

OAC 252:2-15-40. Air quality applications - Tier I

__(1) New construction, operating and relocation permit for a minor source.
__(2) Modification of a construction permit for a minor source that will remain minor after the modification.
__(3) Modification of an operating permit that will not change the source's classification from minor to major.
__(4) Extension of expiration date of a construction permit.
__(5) Renewal of an operating permit for a minor source.
__(6) New construction permit for an existing major facility for any facility change considered minor under OAC 252:100-8-7(e)(1).
__(7) New operating permit that is based on a construction permit that was processed under Tier II or III, 252:100-8-8 and has conditions which do not differ from the construction permit's operating conditions in any way considered significant under OAC 252:100-8-7(e)(2)(A).
__(8) Modification of any operating permit condition that is based on the operating conditions of a construction permit that was processed under Tier II and Tier III, OAC 252:100-8-8 and does not differ from those construction permit conditions in any way considered significant under OAC 252:100-8-7(e)(2)(A).
_X_(9) A construction or operating permit modification that is minor under OAC 252:100-8-7(e)(1)(A).
__(10) Extension of expiration date of a major facility's construction permit with no or minor modifications.
__(11) New, modified and renewed individual authorizations under general operating permits for which a schedule of compliance is not required by OAC 252:100-8-5(d)(8)(C)(iii).
__(12) Burn approvals.
__(13) Plant-wide emission plan approval under OAC 252:100-37-25(b) or OAC 252:100-39-46(j).
__(14) Administrative amendments of all air quality permits and other authorizations.
__(15) Alternative emissions reduction authorizations.

OAC 252:2-15-41. Air quality applications - Tier II

__(1) A minor source seeking a permit for a facility modification that when completed would turn it into a major facility.
__(2) New construction permit for a new major facility not classified under Tier III.
__(3) New construction permit for an existing major facility for any facility change considered significant under OAC 252:100-8-7(e)(2)(A) and which is not classified under Tier III.
__(4) New operating permit for a major facility that did not have an underlying construction permit processed under Tier II or Tier III, and OAC 252:100-8-8.
__(5) New operating permit with one or more conditions that differ form the underlying Tier II or Tier III construction permit's operating conditions in a way considered significant under OAC 252:100-8-7(e)(2)(A).
__(6) New acid rain permit that is independent of a Title V permit application.
__(7) New temporary source permit under OAC 252:100-8-6(e).
__(8) Significant modifications, as described in OAC 252:100-8-7(e)(2)(A), of an operating permit that is not based on an underlying construction permit processed under Tier II or Tier III, and OAC 52:100-8-8.
__(9) Modification of an operating permit when the conditions proposed for modification differ from the underlying construction permit's operating conditions is an way considered significant under OAC 252:100-8-7(e)(2)(A).
__(10) A construction permit modification considered significant under OAC 252:100-8-7(e)(2)(A) and which is not classified under Tier III.
__(11) Renewals of operating permits for major facilities.
__(12) New, modified and renewed general operating permits.
__(13) Individual authorizations under any general operating permit for which a schedule of compliance is required by OAC 252:100-8-5(d)(8)(C)(iii).

OAC 252:2-15-42. Air quality applications - Tier III

(a) **New major stationary sources.** A construction permit for any new major stationary source listed in this subsection requires a Tier III application. For purposes of this section, "Major stationary source" means:

(1) Any of the following sources of air pollutants which emits, or has the PTE, 100 TPY or more of any pollutant subject to regulation:

__(A) carbon black plants (furnace process)	__(J) hydrofluoric, sulfuric or nitric acid plants	__(R) portland cement plants
__(B) charcoal production plants	__(K) iron and steel mill plants	__(S) primary aluminum ore reduction plants
__(C) chemical process plants	__(L) kraft pulp mills	__(T) primary copper smelters
__(D) coal cleaning plants (with thermal dryers)	__(M) lime plants	__(U) primary lead smelters
__(E) coke oven batteries	__(N) incinerators, except where used exclusively as air pollution control devices	__(V) primary zinc smelters
__(F) fossil-fuel boilers (or combustion thereof), totaling more than 250 million BTU/hr heat input	__(O) petroleum refineries	__(W) secondary metal production plants
__(G) fossil fuel-fired steam electric plants of more than 250 million BTU/hr heat input	__(P) petroleum storage and transfer units with total storage capacity exceeding 300,000 barrels	__(X) sintering plants
__(H) fuel conversion plants	__(Q) phosphate rock processing plant	__(Y) sulfur recovery plants
__(I) glass fiber processing plants		__(Z) taconite ore processing plants

__(2) Any other source not specified in paragraph (1) of this definition which emits, or has the PTE, 250 TPY or more of any pollutant subject to regulation.

__(b) **Existing incinerators.** An application for any change in emissions or potential to emit, or any change in any permit condition, that would have caused an incinerator to be defined as a major stationary source when originally permitted shall require a Tier III application.

Oklahoma Dept. of Environmental Quality

Information Needed

1. **Description of the process or operation.**

   (a) **Descriptions of nonmetallic mineral processing plants should include a listing of each crusher, grinding mill, screening, operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station. For each piece of equipment, provide a serial number (if available) and/or a plant identification number, the date of manufacture and/or date of purchase (if purchased prior to August 21, 1933), and the size (the rated capacity in tons per hour of each crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of each screening operation; the width of each conveyor belt; and the rated capacity in tons of each storage bin).**

   Since originally constructing this facility in 2002, Greenhill Materials has made several changes to improve plant operating efficiency. These changes include:

   1. Replacement of the original jaw crusher with an impact crusher.
   2. Replacement of a 6'x20' triple deck screen with a 6'x16' single deck screen.
   3. Addition of a sand screw to produce manufactured sand.
   4. Addition of a rail loadout facility comprised of a feed hopper and two additional conveyors.
   5. Elimination of two diesel generator engines and a 10,000-gallon diesel fuel aboveground storage tank (AST). All equipment is now electrically operated.
   6. Addition of an 8,000-gallon diesel fuel AST for fueling mobile equipment.
   7. Replacement of the diesel powered Kolberg Model 52 pug mill with a new electrically operated Pugmill Systems, Inc. Model 750LS pug mill.
   8. Addition of 5 conveyors (current total of 13 conveyors) and three radial stackers (current total of 5 radial stackers) at the plant.

   In addition to the above changes, Greenhill Materials is requesting approval to increase maximum crusher plant production to 600 tons per hour (TPH) from the current 300 TPH. The Company is also requesting approval to increase annual hours of operation for the crusher plant from 2,500 to 3,000. This will increase maximum annual aggregate production from the current 750,000 TPY to 1,800,000 TPY. An updated process flow diagram is included as Attachment A (Figure 1) of this application. At the same time, Greenhill Materials requests that the new pugmill be permitted for a maximum production of 550 TPH for a maximum of 2,500 hours/year.

   (b) **Descriptions of onshore natural gas processing plants subject to NSPS 40 CFR 60, Subpart KKK, synthetic organic chemicals manufacturing plants subject to NSPS 40 CFR 60, Subpart VV, and petroleum refineries subject to NSPS 40 GFR 60, Subpart GGG shall list each piece of equipment subject to the relevant subpart. The description should contain sufficient detail to demonstrate that the equipment complies with applicable NSPS requirements and/or exemptions.**

   Not applicable to this application.

2. **Include a process flow diagram. This should be a simplified diagram, identifying each operation or process.**

   Show amounts at each process step or stage of manufacture of all raw materials, intermediate products, by-products and finished products.

   Show amount of all other material entering or leaving the process including air or gas streams.

See Appendix B of this application for maximum process rates at various points in the crusher plant operation.

3. **The applicant must list and identify all expected air emissions, including toxic and hazardous substances. This information is a vital part of the application. Give the amount of these individual emission rates in pounds per hour and tons per year. Specify and explain the basis used for this estimate, and include that supporting data. Key emissions to process flow diagram by number or other identification means.**

   The only air emissions generated from this operation are particulates (both PM and PM10) and volatile organic compounds (VOCs) from working and breathing losses generated by the 8,000-gallon diesel fuel AST.

4. **Give maximum process weight in pounds per hour and basis for calculating or establishing this hourly rate. (If necessary, a definition of process weight is given in OAC 252:100-1-2. For nonmetallic mineral processing plants provide the maximum process weight in pounds per hour for each piece of equipment including each conveyor belt, and the plant capacity (the cumulative rated capacity of all initial crushers that are part of the plant).**

   The maximum capacity of the crusher operation will be 600 TPH (1.2 million PPH). Maximum hourly process rates for the various units downstream from the primary crusher are shown in TPH on the Process Flow Diagram in Attachment A.

5. **Hours of operation per day, days per week and weeks per year. (Operating permit will be limited to this number of total hours of operation per year.) Where differences exist between operations, specify each rate.**

   Greenhill Materials is requesting a maximum 3,000 hours of operation annually for the crusher plant and 2,500 hours of annual operation for the pug mill.

6. **Describe the raw materials used in process. Give their principal use or function when it is not self-explanatory.**

   Raw materials used in the process include broken limestone rock, water (dust suppression and for control of moisture level in aggregate products) and diesel fuel (mobile equipment). The rock crusher and wash plant operations produce various grades of aggregate used in the construction industry. A maximum of 1,500 tons per week of production is loaded into rail cars and shipped to a construction materials operation in Oklahoma City. Remaining production is for local markets and is transported from the facility by truck.

7. **If process is cyclical instead of continuous, give length of cycle and time between cycles.**

   Plant operation is continuous, however, production of individual products may be cyclical, depending on market demand.

8. **Does process involve use of potentially hazardous air contaminants and toxic materials? If so, and emission rate exceeds specified de minimis rate, determine MAAC and provide documentation to determine off property line maximum ground level concentration.**

   Process does not involve use of any hazardous air pollutants (HAPs) or toxic air contaminants (TACs).

9. **For any combustion units provide the information requested in Instruction No. 4, Items 2, 3, 4 and 7.**

   Not applicable to this operation.

10. **For any hydrocarbon storage tanks provide the information requested in Instruction No. 3.**

See Instruction No. 3.

11. **Include a plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Key all flows and discharge outlets to the process flow diagram by number or other identification means.**

See Attachment A.

12. **Include an area plot plan showing location of the establishment; property lines, and the surrounding area residences, other types of structures and roadways.**

See Attachment A (Figure 2).

13. **Fugitive Dust Control**

Specify the procedures to be used to minimize air pollution from operations not involving process emissions in which particulates are likely to be wind-borne, including the following items:

(a) Service roads and parking areas.

Mine roads and haul roads will be watered periodically during dry days for dust control.

(b) Stockpiles or storage area.

Aggregate materials are stockpiled in a damp to wet condition.

(c) Loading and unloading materials.

Aggregate materials loaded into haul trucks or the feed hopper for the rail loadout are generally in a damp to wet condition.

(d) Transportation of dusty material by truck.

Haul trucks are required to tarp their loads prior to entering Highway 266.

(e) Any other enterprise which involves a substance likely to be scattered by the wind or susceptible to being airborne.

Not applicable.

14. **Emission Point Data**

Not applicable. All emissions are fugitive.

(a) Height above grade.
(b) Stack inside diameter at discharge, or point where emissions are discharged if no stack will exist.
(c) Stack gas volume, velocity, temperature.
(d) Mass emission rates, lbs./hr.
(e) Distance to surrounding obstructions and give their heights and plan view dimensions.

(f) **Facility property line locations.**

15. **Specify whether stack sampling ports are being included in the construction, and identify which stacks.**

There are no stacks associated with this operation.

16. **Air Pollution Control Equipment**

The only air pollution control equipment associated with this operation is water sprays at the primary crusher (CR-1), the inlet side of Conveyor C-4 and on the secondary crusher (CR-2). In addition, the pug mill is a wet operation with water added at a rate of 50 GPM.

The following information is needed on the control equipment included in the installation.

(a) **Key the equipment to. process flow diagram by number or other identification means.**
(b) **Type (cyclone, wet collector, fabric filter, electrostatic precipitator, incineration, absorption, other).**
(c) **Air contaminant(s) to be controlled.**
(d) **Particle size range and composition, for particulates.**
(e) **Particle size efficiency curve, for a particulate collector.**
(f) **Guarantee efficiency of collector with the suppliers performance guarantee conditions if performance is not achieved.**
(g) **Provide the following information on these collectors:**

Wet Collector

Flow rate and type of solution, gallons per minute.
Description of mist eliminator system to be used.

Electrostatic Precipitator

Type of precipitator.
Number of stages.
Rapping system used.

Incineration

Type of unit described.
Fuel used, with hourly and annual consumption.

For installations involving more than hydrocarbon storage tanks, the completion of additional instructions is also necessary (Instruction 1 for general process operations, and Instruction 4 for fuel burning equipment).

Information needed

1. **Storage Tank information:**

(a) **Applicant must fill out a complete table for each tank with capacity of 400 gallons or more. Attach relevant documents (such as, TANKS program output etc.).**

See Attachment B.

STORAGE TANKS									
Tank ID #	AST-1	Construction Date		Submerged Fill Pipe Provided?		x	Yes		No
Tank Height (ft)	21			Tank Diameter (ft)			8		
Tank Capacity (gallons)	8,000 gallons			Tank Color			White		
Maximum Throughput (gallons/year)	251,000			Vapor Pressure (psia)			0.012		
Design Type	Fixed Cone Roof	Floating Internal Roof		Floating External Roof	X	Others (Specify)	Horizontal w/ fixed ends		
Type of Liquid Stored	Condensate*	Methanol		Crude Oils	X	Other (Specify)	Diesel Fuel		

*Note: "Slop Oil" tanks are assumed to be condensate

(b) Subject to NSPS 40 CFR 60, Subpart K, Ka, Kb?

Not applicable to this application.

(c) Minimum and maximum temperatures at which material will be stored.

Product will be stored at ambient temperature.

(d) Description of venting valve system, including where vented to.

Not applicable.

(e) Description of vapor control system, if other than submerged fill pipe.

Submerged fill pipe.

2. Loading Facility Information (if applicable):

(a) **Type of facilities.**

Diesel fuel AST for mining equipment.

(b) **Sources to be loaded from facility.**

Mobile mining equipment will be refueled from this tank.

(c) **Type of vapor control and recovery system.**

Submerged fill pipe.

(d) **Efficiency of vapor control and recovery system.**

See Attached Tanks 3.1 data in Appendix B.

(e) **Loading rate in gallons per day and gallons per year**

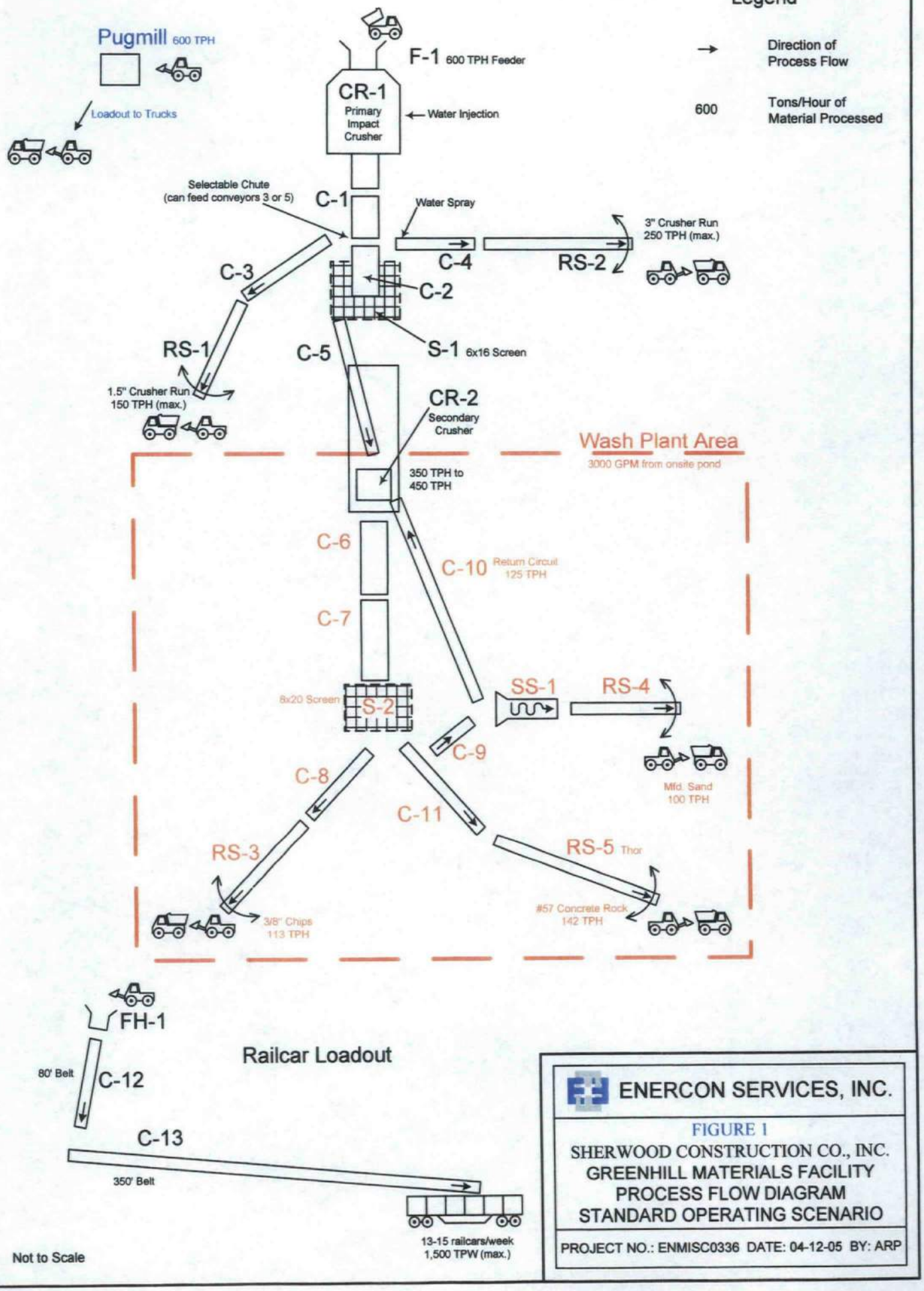
Maximum annual fuel usage is estimated at 251,000 gpy at 1.8 million tons/year of production.

(f) **Control method utilized on vapor recovery system and control efficiency.**

Submerged fill pipe.

Listing of New Equipment

Description	Manufacturer	Model No.	Serial No.	Date of Manufacture	Subpart OOO Applicable?
Impact Crusher	Kohlberg-Pioneer	3850	403073	July 2001	Yes
6'x16' Screen	Cedarapids	M160B	2616-M160BS-5673	August 2003	Yes
Sand Screw	Trio	TW4432	None	July 2003	Yes
Feed Hopper	Cooks Fabricators	None	None	July 2001	Yes
Pug Mill	Pugmill Systems, Inc.	750LS	1419-750LS	October 2002	Yes
Conveyors	Various	NA	NA	2001	Yes

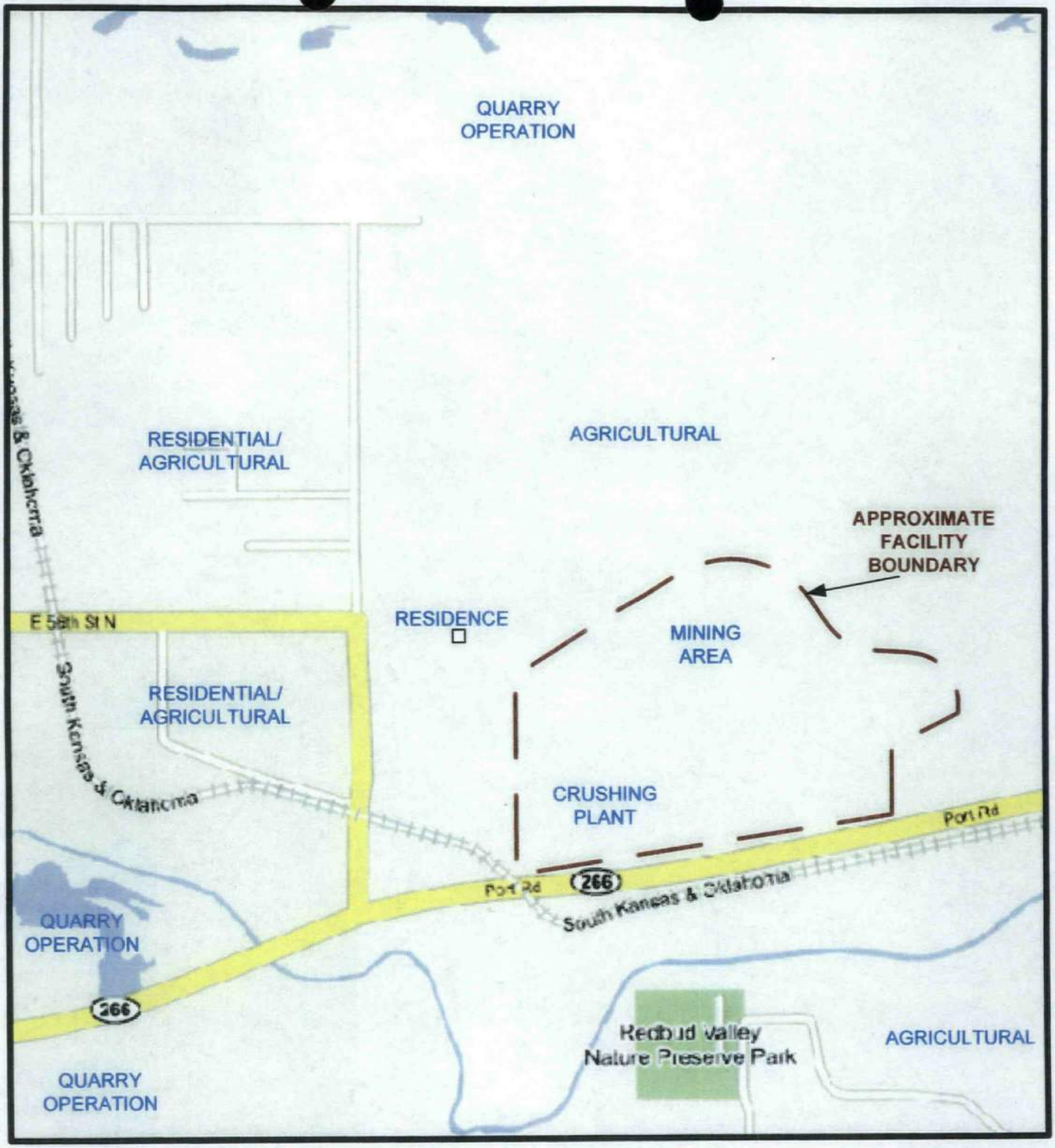


ENERCON SERVICES, INC.

FIGURE 1

SHERWOOD CONSTRUCTION CO., INC.
GREENHILL MATERIALS FACILITY
PROCESS FLOW DIAGRAM
STANDARD OPERATING SCENARIO

PROJECT NO.: ENMISC0336 DATE: 04-12-05 BY: ARP



Enercon Services, Inc. 5100 East Skelly Drive, Suite 450 Tulsa, Oklahoma 74135	N W E S **FIGURE 2** Site Location Map Not to Scale Source: maps.google.com
Subject Site **Greenhill Materials Facility**	**Prepared for:** Greenhill Materials/Sherwood Construction 4716 N. 193rd East Avenue Catoosa, OK 74015

MAXIMUM ANNUAL PARTICULATE EMISSIONS - GREENHILL MATERIALS

Emission Point Description	Control Factor (%)	Max. An. Hours of Operation	Process Rate (TPH)	AP-42 PM Factor (lb/T)	Max. Hourly PM Emissions (lb/hr)	Max. Annual PM Emissions (TPY)	AP-42 PM_{10} Factor (lb/T)	Max. Hourly PM_{10} Emissions (TPY)	Max. Annual PM_{10} Emissions (TPY)
Crusher Plant									
Truck Unloading to Feeder F-1	0	3000	600	0.000034	0.020	0.031	0.000016	0.010	0.014
Feeder F-1 to Crusher CR-1	90	3000	600	0.00609	0.365	0.548	0.0029	0.174	0.261
Primary Crusher CR-1	75	3000	600	0.00504	0.756	1.134	0.0024	0.360	0.540
Crusher CR-1 to Conveyor C-1	90	3000	600	0.00609	0.365	0.548	0.0029	0.174	0.261
Conveyor C-1 to Conveyor C-2	90	3000	600	0.00609	0.365	0.548	0.0029	0.174	0.261
Conveyor C-2 to Screen S-1	90	3000	600	0.00609	0.365	0.548	0.0029	0.174	0.261
Screen S-1	90	3000	600	0.00609	0.365	0.548	0.0029	0.174	0.261
Screen S-1 to Conveyor C-3	90	2250	150	0.00609	0.091	0.103	0.0029	0.044	0.049
Conveyor C-3 to Radial Stacker RS-1	90	2250	150	0.00609	0.091	0.103	0.0029	0.044	0.049
Radial Stacker RS-1 to Stockpile	90	2250	150	0.00609	0.091	0.103	0.0029	0.044	0.049
Screen S-1 to Conveyor C-4	90	750	250	0.00609	0.152	0.057	0.0029	0.073	0.027
Conveyor C-4 to Radial Stacker RS-2	90	750	250	0.00609	0.152	0.057	0.0029	0.073	0.027
Radial Stacker RS-2 to Stockpile	90	750	250	0.00609	0.152	0.057	0.0029	0.073	0.027
Screen S-1 to Conveyor C-5	90	3000	450	0.00609	0.274	0.411	0.0029	0.131	0.196
Conveyor C-5 to Crusher CR-2	90	3000	450	0.00609	0.274	0.411	0.0029	0.131	0.196
Wash Plant*									
Crusher CR-2*	90	3000	450	0.00504	0.227	0.340	0.0024	0.108	0.162
Crusher CR-2 to Conveyor C-6	100	3000	450	0.00609	0	0	0.0029	0	0
Conveyor C-6 to Conveyor C-7	100	3000	450	0.00609	0	0	0.0029	0	0
Conveyor C-7 to Screen S-2	100	3000	450	0.00609	0	0	0.0029	0	0
Screen S-2	100	3000	450	0.00609	0	0	0.0029	0	0
Screen S-2 to Sand Screw	100	3000	100	0.00609	0	0	0.0029	0	0
Sand Screw SS-1 to Radial Stacker RS-4	100	3000	100	0.00609	0	0	0.0029	0	0
Radial Stacker RS-4 to Stockpile	100	3000	100	0.00609	0	0	0.0029	0	0
Screen S-2 to Conveyor C-8	100	3000	113	0.00609	0	0	0.0029	0	0
Conveyor C-8 to Radial Stacker RS-3	100	3000	113	0.00609	0	0	0.0029	0	0
Radial Stacker RS-3 to Stockpile	100	3000	113	0.00609	0	0	0.0029	0	0
Screen S-2 to Conveyor C-9	100	3000	125	0.00609	0	0	0.0029	0	0
Conveyor C-9 to Conveyor C-10	100	3000	125	0.00609	0	0	0.0029	0	0
Conveyor C-10 to Crusher CR-2	100	3000	125	0.00609	0	0	0.0029	0	0
Screen S-2 to Conveyor C-11	100	3000	142	0.00609	0	0	0.0029	0	0
Conveyor C-11 to Radial Stacker RS-5	100	3000	142	0.00609	0	0	0.0029	0	0
Radial Stacker RS-5 to Stockpile	100	3000	142	0.00609	0	0	0.0029	0	0
Pugmill*									
Frontend Loader to Pugmill	100	2500	550	0.00609	0	0	0.0029	0	0
Pugmill to Trucks	100	2500	550	0.00609	0	0	0.0029	0	0
Rail Car Loadout									
Frontend Loader to Feed Hopper FH-1	60*	600	400	0.00609	0.974	0.292	0.0029	0.464	0.139
Feed Hopper FH-1 to Conveyor C-12	60	600	400	0.00609	0.974	0.292	0.0029	0.464	0.139
Conveyor C-12 to Conveyor C-13	60	600	400	0.00609	0.974	0.292	0.0029	0.464	0.139
Conveyor C-13 to Rail Car	60	600	400	0.00609	0.974	0.292	0.0029	0.464	0.139
Subtotals					8.007	6.716		3.813	3.198
Fugitive Emissions				#/VMT or #/T	Calculated lb/hr		#/VMT or #/T	Calculated lb/hr	
Haul Roads	70	3000	1249.74	0.558	10.647	15.970	0.537	10.246	15.369
Plant Roads	70	3000	293.15	0.837	12.220	18.330	0.402	5.869	8.804
Stockpiles	0	8760	600	0.00161	0.966	4.231	0.000763	0.458	2.005
Totals					31.840	45.248		20.386	29.376

*Assumes 90-100% Control from 3,000 GPM Water Spray

*Assumes 100% Control from 50 GPM Water Spray

*Assumes 60% Control with Outer Surface of Stockpile in Dry Condition and Interior Moist

Given:

3000 hrs/yr of operation (57.7 hrs/wk)
600 TPH = maximum production

Weekly prod = (600 TPH)(57.7 hr/wk)
= 34,620 TPW

Minimum of 1,300 tons/week goes out rail

34,620 tons/wk − 1,300 tons/wk = 33,320 tons/wk out by truck

(52 wk/yr)(33,320 tons/wk) = 1,732,640 tons/yr " " "

From 8/9/99 Application,

Variable	Plant Loads	Haul Loads
k (Dimensionless)	0.5	0.5
s (% Silt)	11	9.6
S (MPH)	10	20
W (T - empty & full)	$\bar{X}$ = 31.75	$\bar{X}$ = 79.25
w (no. of wheels)	$\bar{X}$ = 14	$\bar{X}$ = 6
P (days of 0.01" precip)	95	95
Average annual tons	1,800,000	2,500,000*
VMT (Vehicle Miles Traveled)	1,800,000/20.5 = 87,805 loads 87,805 x 0.5mi = 43,903 mi	2,500,000/65.5 = 38,170 loads 38,170 x 1.5 mi = 57,252 mi

* Assumes 700K TPY Expansion

PM_{10}

$E = k(s/12)^a(W/3)^b$

$E = 0.5(11/12)^{0.9}(31.75/3)^{0.45}$

$= 0.5(.925)(2.89)$

$= 1.34$ #/VMT

PM_{10}

$E = k(s/12)^a(W/3)^b$

$E = 0.5(9.6/12)^{0.9}(79.25/3)^{.4}$

$= 0.5(0.82)(4.36)$

$= 1.79$ #/VMT

PM

$E = k(s/12)^a(W/3)^b$

$E = 0.5(11/12)^{0.7}(W/3)^{0.45}$

$= 0.5(1.93)(31.75/3)^{0.45}$

$= 0.5(1.93)(2.89)$

$= 1.79$ #/VMT

PM

$E = 0.5(s/12)^a(W/3)^b$

$E = 0.5(9.6/12)^{0.7}(79.25/3)^{0.45}$

$= 0.5(0.855)(4.36)$

$= 1.86$ #/VMT

Assume 70% emission control w/ Plant & Haul Road Watering

Plant Roads

$PM_{10} = (43{,}903 \text{ mi})(1.34 \#/\text{VMT})(.3)$
$= 8.8 \text{ TPy}$

$PM = (43{,}903 \text{ mi})(2.79 \#/\text{VMT})(.3)$
$= 18.37 \text{ TPy}$

Max. Hourly Emissions

$(43{,}903 \text{ mi/yr})/3{,}000 \text{ hr/yr} = 14.6 \text{ mi/hr}$
$(14.6 \text{ VMT})(1.34 \#/\text{VMT})(.3) = 5.87 \#/\text{hr}$

$(14.6 \text{ VMT})(2.79 \#/\text{VMT})(.3) = 12.22 \#/\text{hr}$

Haul Roads

$PM_{10} = (57{,}252 \text{ mi})(1.79 \#/\text{VMT})(.3)$
$= 15.37 \text{ TPy}$

$PM = (57{,}252 \text{ mi})(1.86 \#/\text{VMT})(.3)$
$= 15.97 \text{ TPy}$

$(57{,}252 \text{ mi})/3{,}000 \text{ hr/yr} = 19.08 \text{ VMT/hr}$
$(19.08 \text{ VMT/hr})(1.79 \#/\text{VMT})(.3) = 10.25 \#/\text{hr}$

$(19.08 \text{ VMT/hr})(1.86 \#/\text{VMT})(.3) = 10.65 \#/\text{hr}$

Storage Piles:

Assume: 5% moisture content

$$PM_{10} \quad E = (.35)(0.0032)\frac{\left(\frac{10}{5}\right)^{1.3}}{\left(\frac{5}{2}\right)^{1.4}}$$

$= (1.12 \times 10^{-3})(2.46/3.61)$
$= (1.12 \times 10^{-3})(0.681)$
$= 7.63 \times 10^{-4} \#/\text{T}$

$\Sigma = (1{,}800{,}000 \text{ TPy})(7.63 \times 10^{-4} \#/\text{T})$
$= 0.69 \text{ TPy}$

$$PM = E = (0.74)(0.0032)\frac{\left(\frac{10}{5}\right)^{1.3}}{\left(\frac{5}{2}\right)^{1.4}}$$

$= (2.37 \times 10^{-3})(0.681)$
$= 1.61 \times 10^{-3} \#/\text{T}$
$\Sigma = (1{,}800{,}000 \text{ TPy})(1.61 \times 10^{-3} \#/\text{T})$
$= 1.45 \text{ TPy}$

Greenhill Materials Diesel Fuel Usage MB

1. Facility used 65,000 gal of diesel fuel in 2004 to produce 466,187 tons of crushed rock

2. Maximum Annual Production = 1.8 mm tpy.

3. 1,800,000 TPY / 466,187 TPY = 3.86

(3.86)(65,000 gpy) = 251,000 gpy of fuel (Maximum)

TANKS PROGRAM 3.1
EMISSIONS REPORT - DETAIL FORMAT
TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

entification
Identification No.: Greenhill
City: Catoosa
State: OK
Company: Greenhill Materials
Type of Tank: Horizontal Fixed Roof
Description: Diesel AST

Tank Dimensions
Shell Length (ft): 21.0
Diameter (ft): 8.0
Volume(gallons): 8000
Is tank underground? (Y/N): N
Turnovers: 31.4
Net Throughput (gal/yr): 251200

int Characteristics
Shell Color/Shade: White/White
Shell Condition: Good

eather Vent Settings
Vacuum Setting (psig): 0.00
Pressure Setting (psig): 0.00

teorological Data Used in Emission Calculations: Tulsa, Oklahoma (Avg Atmospheric Pressure = 14.7 psia)

TANKS PROGRAM 3.1
EMISSIONS REPORT - DETAIL FORMAT
LIQUID CONTENTS OF STORAGE TANK

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	62.16	56.55	67.77	60.32	0.0070	0.0058	0.0083	130.000			188.00 Option 3: A=12.1010, B=8907.0

TANKS PROGRAM 3.1
EMISSIONS REPORT - DETAIL FORMAT
DETAIL CALCULATIONS (AP-42)

nual Emission Calculations

Standing Losses (lb):	1.7056
Vapor Space Volume (cu ft):	670.63
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.043196
Vented Vapor Saturation Factor:	0.998527

ank Vapor Space Volume
Vapor Space Volume (cu ft): 670.63
Tank Diameter (ft): 8.0
Effective Diameter (ft): 15
Vapor Space Outage (ft): 4.00
Tank Shell Height (ft): 21.0

apor Density
Vapor Density (lb/cu ft): 0.0002
Vapor Molecular Weight (lb/lb-mole): 130.000000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.006959
Daily Avg. Liquid Surface Temp. (deg R): 521.83
Daily Average Ambient Temp. (deg. R): 519.97
Ideal Gas Constant R (psia cuft /(lb-mole-deg R)): 10.731
Liquid Bulk Temperature (deg R): 519.99

Tank Paint Solar Absorptance:	0.17
Daily Total Solar Insolation Factor (Btu/sqft□day):	1373.00

Vapor Space Expansion Factor

Vapor Space Expansion Factor:	0.043196
Daily Vapor Temperature Range (deg R):	22.45
Daily Vapor Pressure Range (psia):	0.002563
Breather Vent Press. Setting Range(psia):	0.00
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.006959
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.005780
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.008344
Daily Avg. Liquid Surface Temp. (deg R):	521.83
Daily Min. Liquid Surface Temp. (deg R):	516.22
Daily Max. Liquid Surface Temp. (deg R):	527.44
Daily Ambient Temp. Range (deg.R):	22.10

DETAIL CALCULATIONS (AP-42), CONT.

Annual Emission Calculations

Vented Vapor Saturation Factor

Vented Vapor Saturation Factor:	0.998527
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.006959
Vapor Space Outage (ft):	4.00
Working Losses (lb):	5.4105
Vapor Molecular Weight (lb/lb-mole):	130.000000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.006959
Annual Net Throughput (gal/yr):	251200
Turnover Factor:	1.0000
Tank Diameter (ft):	8.0
Working Loss Product Factor:	1.00
Total Losses (lb):	7.12

Annual Emissions Report

Liquid Contents	Losses (lbs.): Standing	Working	Total
Distillate fuel oil no. 2	1.71	5.41	7.12
Total:	1.71	5.41	7.12

GREENHILL MATERIALS CO., L.C.

CHECK NUMBER 011230

INVOICE DATE	INVOICE NUMBER	INVOICE AMOUNT	DISCOUNT AMOUNT	NET REMITTANCE	JOB NUMBER
	100 008 C20000GM application fee	$550.00	FAC ID # 3421 2005-012-O Sherwood Constr.		

REMITTANCE STATEMENT

CHECK DATE ➧

TOTAL REMITTANCE ➧

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER AND HAS MICRO PRINTING IN THE SIGNATURE LINE

GREENHILL MATERIALS CO., L.C.
P.O. Box 10
Catoosa, OK 74015

Bank of America
Catoosa, OK 74015
39-1 / 1030 OK

CHECK NUMBER 011230

CONTROL NUMBER

AMOUNT
$550.00

DATE June 2, 2005

PAY TO THE ORDER OF Five Hundred Fifty Dollars----------

Oklahoma Air Quality Division

AUTHORIZED SIGNATURE

⑈011230⑈ ⑆103000017⑆ 00286572001 5⑈

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2005-012-O

STACK EMISSIONS STUDY FROM THE CRUSHER AND CONVEYOR EQUIPMENT PREPARED FOR GREENHILL MATERIALS GREENHILL MATERIALS PLANT OWASSO, OKLAHOMA MARCH 14-16, 2005

Prepared and Reviewed by:

Pandu Sattvika
Pandu Sattvika, Testing Specialist

Thomas K. Graham, PE, Project Manager

Quinn A. Bierman
Quinn A. Bierman, President

1.3 KEY PERSONNEL

Greenhill Materials:	Shawn Roberts	918-625-3902
Air Hygiene:	Thomas Graham	918-307-8865
Air Hygiene:	Pandu Sattvika	918-307-8865

2.0 SUMMARY OF TEST RESULTS

2.1 EMISSION TEST RESULTS

Results from the sampling conducted at the Greenhill Materials Plant from the crusher and conveyor equipment, transfer points on March 14-16, 2005 are summarized in the following table.

TABLE 2.1
SUMMARY OF TEST RESULTS

Sample Point	Parameter				
	Average Opacity	Maximum Opacity	6 Minute Averages	6 Minute Maximum	Readings Above 10%
	(%)	(%)	(%)	(%)	(%)
Primary Crusher	0.71	5	0.69	1.60	0
Primary Crusher to Conveyor #1	0	0	0	0	0
Conveyor #1 to 6x16 Screen	0	0	0	0	0
Conveyor #3 to Conveyor #4	0	0	0	0	0
Conveyor #4 to Stockpile	0	0	0	0	0
Conveyor #5 to Conveyor #6	0	0	0	0	0
Conveyor #6 to Stockpile	0	0	0	0	0
Conveyor #7 to 2nd Crusher	0	0	0	0	0
2nd Crusher to Conveyor #8	2.00	5	1.89	3.94	0
Conveyor #8 to Conveyor #9	0	0	0	0	0
Conveyor #9 to 8x20 Screen	0	0	0	0	0
8x20 Screen to Conveyor #13	0	0	0	0	0
Conveyor #10 to Conveyor #15	0	0	0	0	0
Conveyor #10 to Sand Screw	0	0	0	0	0
Sand Screw to Conveyor #12	0	0	0	0	0
Conveyor #12 to Stockpile	0	0	0	0	0
Conveyor #13 to Conveyor #14	0	0	0	0	0
Conveyor #14 to Stockpile	0	0	0	0	0
Conveyor #15 to Conveyor #16	0	0	0	0	0
Conveyor #16 to Stockpile	0	0	0	0	0
Feed Hopper to 80' Belt	0	0	0	0	0
80' Belt to 350' Belt	0	0	0	0	0
350' Belt to Rail Cars	0	0	0	0	0

3.0 SOURCE OPERATION

3.1 PROCESS DESCRIPTION

Trucks feed raw materials to a main crusher. The resulting crushed materials are transported on a conveyor system to other processes and storage piles. The entire process is wetted by use of a continuous misting system.

4.0 SAMPLING AND ANALYTICAL PROCEDURES

4.1 TEST METHODS

The emission tests on the crusher and conveyor equipment at the Greenhill Materials Plant was performed following EPA methods described by the Code of Federal Regulations, Title 40, Part 60, Appendix A. Table 4.1 below outlines the specific method performed on March 14-16, 2005.

TABLE 4.1
SUMMARY OF SAMPLING METHODS

Pollutant or Parameter	Sampling Method	Analysis Method
Opacity	EPA Method 9	Visual Observation

The sampling and analysis procedure used during these tests conforms in principle with the methods outlined in the Code of Federal Regulations (CFR), Title 40, Part 60, Appendix A, Method 9. Figure 4.1 depicts the sample points used for the opacity tests. A visual sample was taken at 15 second intervals for a period of 60 minutes at each emission point. All readings were then recorded on a field data sheet. Data records can be found in Appendix A and C of this report.

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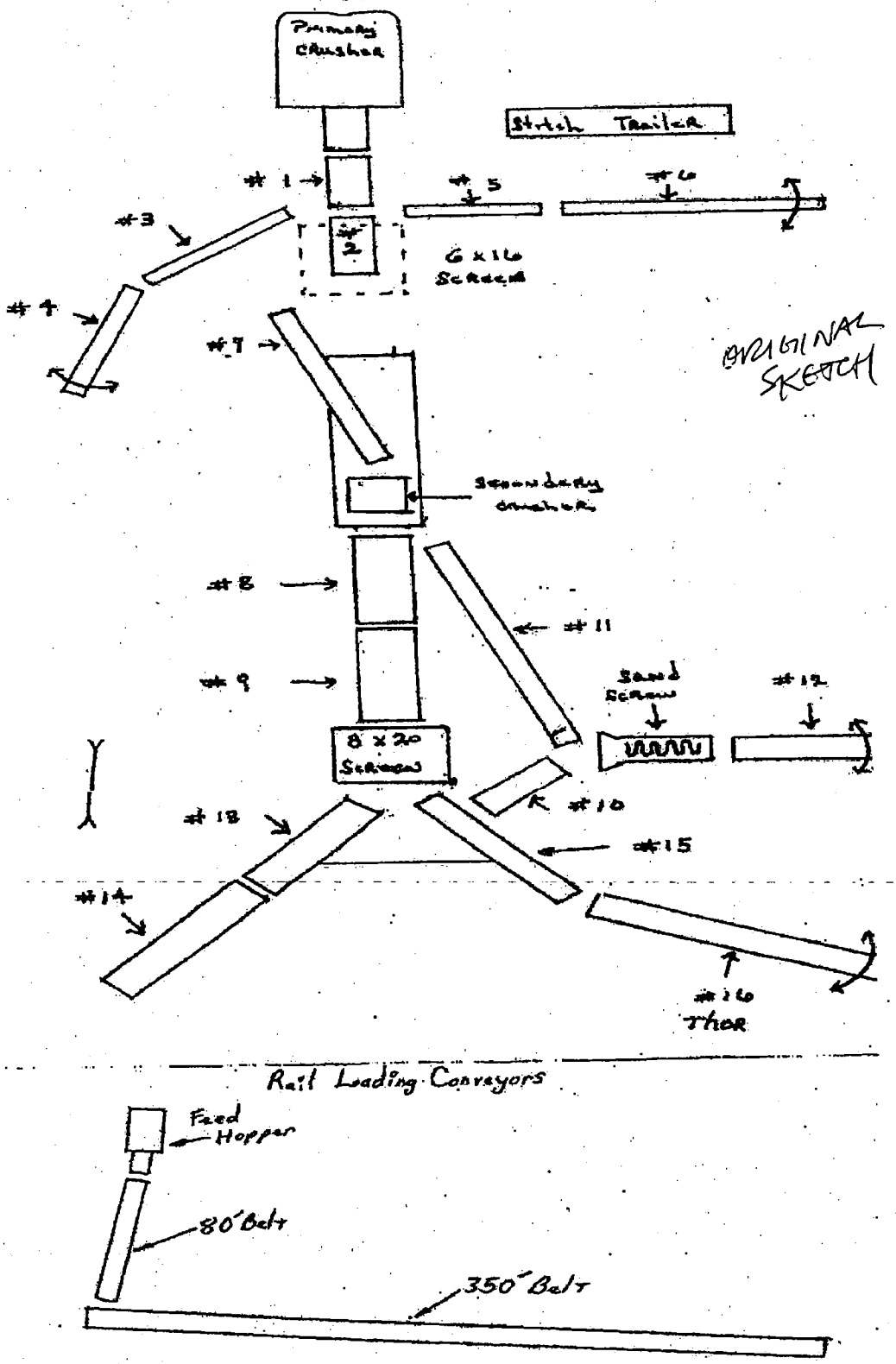
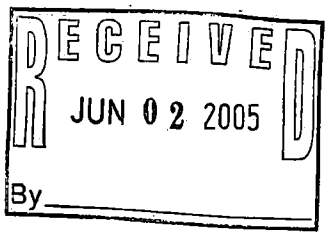
F:\SERVER\GREENHILL\SITE SETUP.PPT 03/24/05 DRAWING:05-008 TKG



AIR HYGIENE

Figure 4.1
GREENHILL MATERIALS PLANT
5634 S. 122nd East Ave, Suite F
Tulsa, Oklahoma 74146
www.airhygiene.com
(888) 461-8778

2005-012-O
GP CONST & OP FEE
MINOR SOURCE



CONSTRUCTION PERMIT APPLICATION
GREENHILL MATERIALS
CATOOSA, OK

Prepared by:

ENERCON SERVICES, INC
An Employee Owned Company

5100 South Skelly Drive, Suite 450
Tulsa, Oklahoma 74135
(918) 665-7693 PHONE
(918) 665-7690 FAX
www.enercon.com

Prepared by: Randal J. Beeson

Randal J. Beeson, Senior Project Manager

Reviewed by: Archie R. Peyton

Archie Peyton, Senior Technician

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **July 12, 2005**

TO: DFL Dawson Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: RK Richard Kienlen, P.E., Eng. Mgr. II, New Source Permits Section

THROUGH: Peer review, Judy Cupples

FROM: Herb Neumann
Regional Office at Tulsa

FACID#3421

SUBJECT: Evaluation of Permit Application **No. 2005-012-O**
Authorization to Operate a Rock Crushing Plant
Nonmetallic Mineral Processing Facility General Permit
Sherwood Construction Company, Inc., Greenhill Materials
Section 10, T20N, R14E, Rogers County
Driving directions: From the intersection of 193rd E. Avenue and OK 266 near the Port of Catoosa, approximately 2.1 miles west, turn right at entrance to plant.

ELIGIBILITY

Greenhill Materials has applied for an authorization to operate a modified limestone aggregate processing facility (SIC 1422) in an attainment area. The maximum plant process rate is 600 tons per hour (TPH) or 1,800,000 tons per year (TPY). The facility consists of two crushers, two screens, a pugmill, 13 conveyors, five radial stackers, a sand screw, a feed hopper, and a rail loadout facility. The facility uses diesel-fired front-end loaders and stores diesel in an 8,000-gallon tank, but all other equipment uses electricity. New equipment listed above and being added under this authorization includes a secondary screen, a sand screw, five conveyors, three radial stackers, and a rail loadout facility (one hopper and two conveyors). A diesel pugmill has been replaced by an electric pugmill, an 8,000-gallon AST replaces a 10,000-gallon AST for diesel storage, and a 600 TPH impact crusher replaces a 300 TPH jaw crusher.

The current application under discussion here is for an Authorization to Operate under the Nonmetallic Mineral Processing Facility General Permit (GP) that was issued on May 9, 2000, includes a request to establish a facility-wide emissions cap (< 100 TPY of any criteria pollutant and/or < 10 TPY of any single HAP or < 25 TPY of a combination of HAPs) in order to avoid other applicable requirements, i.e., Part 70 requirements. The applicant is not subject to a compliance schedule.

The facility is designed for the primary purpose of processing nonmetallic minerals. No emission units are proposed for operation at the facility that are not addressed in the Nonmetallic Mineral Processing GP. The facility is eligible for coverage.

EQUIPMENT

The following table shows equipment at the facility. Control is supplied in some areas by dust suppression equipment, such as spray bars, while the wash portion of the plant carries wet material, approximating a slurry. The word "wet" is used for all of these, with more detail found in the discussion of emissions.

Table 1: Equipment List

Emission Unit EUG & ID#	Description	Const. Date	Control Equipment	NSPS Subpart
1-Unload01	Truck unloading	1994	None	-
1-CRSH001	Crusher, Primary	7/01	Wet	OOO
1-CRSH002	Crusher, secondary	1994	Wet	OOO
1-SCR001	Primary screen	8/03	Wet	OOO
1-SCR002	Secondary screen	1994	Wet	OOO
1-CONV001	Transfer point	1994	Wet	OOO
1-CONV002	Transfer point	1994	Wet	OOO
1-CONV003	Transfer point	1994	Wet	OOO
1-CONV004	Transfer point	1994	Wet	OOO
1-CONV005	Transfer point	1994	Wet	OOO
1-CONV006	Transfer point	1994	Wet	OOO
1-CONV007	Transfer point	1994	Wet	OOO
1-CONV008	Transfer point	1994	Wet	OOO
1-CONV009	Transfer point	2001	Wet	OOO
1-CONV010	Transfer point	2001	Wet	OOO
1-CONV011	Transfer point	2001	Wet	OOO
1-CONV012	Transfer point	2001	Wet	OOO
1-CONV013	Transfer point	2001	Wet	OOO
1-RS01	Transfer point	1994	Wet	OOO
1-RS02	Transfer point	1994	Wet	OOO
1-RS03	Transfer point	2001	Wet	OOO
1-RS04	Transfer point	2001	Wet	OOO
1-RS05	Transfer point	2001	Wet	OOO
1-SP01	Stockpiles (1.8 acres)	1994	NA	OOO
1-SS01	Sand screw	2003	Wet	OOO
2-Tank001	8,000 gallon diesel tank	2005	NA	-
Fugitives	Unpaved roads	-	NA	-

EMISSIONS

Criteria Pollutants

Emissions from the nonmetallic mineral processing equipment are based on the 600 TPH maximum capacity of the plant, considering controls, and using the applicant's proposed annual throughput limit of 1,800,000 tons. Air emissions at the facility result primarily from particulate matter from the crushing/sizing operations. Air emissions are controlled by water suppression and spray bars. Uncontrolled emission factors used by the facility are consistently greater than or equal to those listed in Table 11.19.2-2 of AP-42 (8/04). Additionally, the facility's controlled factors, calculated by multiplying the uncontrolled factors by the various control efficiencies claimed, yield factors consistently equal to or greater than the controlled factors listed in AP-42. If process emissions were not limited to 3,000 hours of operation annually, and assuming equipment to be used in the same proportions as outlined here, the potential to emit (PTE) for this facility would be 9.3 TPY of PM_{10}. Removing water suppression from the crusher plant in addition to allowing continuous operation would bring emissions close to the major source threshold. This facility is well suited for the GP authorization.

Table 2: Emissions from Process Equipment

Emission Point*	Control %	Process rate, TPH	Annual hours	PM_{10} factor, lb/T	PM_{10} Emissions	
					Lb/hr	TPY
Crusher plant operations						
Truck unloading	-0-	600	3,000	1.6×10^{-5}	0.010	0.014
F-1 to Cr-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
Cr-1	75	600	3,000	2.4×10^{-3}	0.360	0.540
Cr-1 to C-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
C-1 to C-2	90	600	3,000	2.9×10^{-3}	0.174	0.261
C-2 to S-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
S-1	90	600	3,000	2.9×10^{-3}	0.174	0.261
S-1 to C-3	90	150	2,250	2.9×10^{-3}	0.044	0.049
C-3 to RS-1	90	150	2,250	2.9×10^{-3}	0.044	0.049
RS-1 to pile	90	150	2,250	2.9×10^{-3}	0.044	0.049
S-1 to C-4	90	250	750	2.9×10^{-3}	0.073	0.027
C-4 to RS-2	90	250	750	2.9×10^{-3}	0.073	0.027
RS-2 to pile	90	250	750	2.9×10^{-3}	0.073	0.027
S-1 to C-5	90	450	3,000	2.9×10^{-3}	0.131	0.196
C-5 to Cr-2	90	450	3,000	2.9×10^{-3}	0.131	0.196
Wash plant operations						
Cr-2	90	450	3,000	2.4×10^{-3}	0.108	0.162
Cr-2 to C-6	100	450	3,000	2.9×10^{-3}	-0-	-0-
C-6 to C-7	100	450	3,000	2.9×10^{-3}	-0-	-0-
C-7 to S-2	100	450	3,000	2.9×10^{-3}	-0-	-0-
S-2	100	450	3,000	2.9×10^{-3}	-0-	-0-
S-2 to SS-1	100	100	3,000	2.9×10^{-3}	-0-	-0-

Emission Point*	Control %	Process rate, TPH	Annual hours	PM_{10} factor, lb/T	PM_{10} Emissions	
					Lb/hr	TPY
SS-1 to RS-4	100	100	3,000	2.9×10^{-3}	-0-	-0-
RS-4 to pile	100	100	3,000	2.9×10^{-3}	-0-	-0-
S-2 to C-8	100	113	3,000	2.9×10^{-3}	-0-	-0-
C-8 to RS-3	100	113	3,000	2.9×10^{-3}	-0-	-0-
RS-3 to pile	100	113	3,000	2.9×10^{-3}	-0-	-0-
S-2 to C-9	100	125	3,000	2.9×10^{-3}	-0-	-0-
C-9 to C-10	100	125	3,000	2.9×10^{-3}	-0-	-0-
C-10 to Cr-2	100	125	3,000	2.9×10^{-3}	-0-	-0-
S-2 to C-11	100	142	3,000	2.9×10^{-3}	-0-	-0-
C-11 to RS-5	100	142	3,000	2.9×10^{-3}	-0-	-0-
RS-5 to pile	100	142	3,000	2.9×10^{-3}	-0-	-0-
Pugmill operations						
Loader to pugmill	100	550	2,500	2.9×10^{-3}	-0-	-0-
Pugmill to trucks	100	550	2,500	2.9×10^{-3}	-0-	-0-
Rail Car Loadout						
Loader to FH-1	60	400	600	2.9×10^{-3}	0.464	0.139
FH-1 to C-12	60	400	600	2.9×10^{-3}	0.464	0.139
C-12 to C-13	60	400	600	2.9×10^{-3}	0.464	0.139
C-13 to rail car	60	400	600	2.9×10^{-3}	0.464	0.139
				Totals	**3.813**	**3.198**

* F-1 means feeder number 1, Cr-2 means crusher number 2, C-3 means conveyor number 3, S-1 means screen number 1, RS-2 means radial stacker number 2, pile means any of several stockpiles, SS-1 means the sand screw, and FH-1 means feed hopper number 1.

VOC emissions from the 8,000-gallon diesel tank are minimal, due to the low vapor pressure of diesel. The facility used EPA-approved Tanks 3.1 to calculate VOC emissions of 7.12 lbs/yr, assuming annual throughput of 251,200 gallons.

There are also emissions of fugitive dust from the haul roads and stockpiles. However, since haul road and stockpile fugitive emissions are not counted towards determining major source status, emission estimates are calculated for these activities only as a memorandum exercise. Fugitive emissions of particulate were calculated as performed in the original permit for this facility, using empirical formula 1a from Section 13.2.2.2 of AP-42 (12/03),

$$E = k(s/12)^a(W/3)^b, \text{ where}$$

E = emission factor (lb/VMT, VMT = vehicle miles traveled)
s = percent of silt
W = mean weight (tons)
a, b, k = constants from Table 13.2.2-2.

VMT for haul roads and plant roads is calculated by dividing the total tonnage to be hauled by the average weight for each truck to calculate the number of loads and multiplying the result by the mileage traversed by each load. Multiplying E times the VMT for each activity yields particulate emissions. Note that dividing the VMT for each activity by 3,000 hours of operation yields an estimate of VMT/hr and therefore an estimate of lb/hr of emissions. The following table presents the data and emission results. Although the facility proposes to finish 1,800,000 TPY of products, total haul road tonnage represents an additional 700,000 TPY of riprap that will not be crushed or finished. The roads are watered, for which AP-42 allows a 70% control factor. The final emission numbers are the only place where this reduction is reflected. Only data related to PM_{10} emissions are used.

Table 3: Fugitives

Datum	Plant roads	Haul roads
k	1.5	1.5
a	0.9	0.9
b	0.45	0.45
s	11	9.6
W	31.75	79.25
E	4.01	5.35
Annual tonnage	1,800,000	2,500,000
Average load	20.5	65.5
Miles per load	0.5	1.5
Annual VMT	43,902	57,252
MPH	14.6	19.1
PM_{10} emissions	17.6 lb/hr	30.6 lb/hr
	26.4 TPY	45.9 TPY

Note that the fugitive emissions identified in the following table of total emissions are not used in determining if the facility is major.

Table 4: Facility-wide Total Emissions

Sources	VOC		PM_{10}	
	Lb/hr	TPY	Lb/hr	TPY
Process Equipment	-0-	-0-	3.81	3.20
Tanks	0.01	0.01	-0-	-0-
Fugitives	-0-	-0-	48.2	72.3
Totals	0.01	0.01	52.0	75.5

Hazardous Air Pollutants (HAPs)

There are no identifiable HAP emissions.

Other Regulated Pollutants

No other regulated pollutants of concern are emitted from this facility except at negligible levels.

PREVIOUS PERMITS

This facility has been operating under individual source Permit No. 99-034-O, issued February 8, 2002. Modifications in equipment and operations are reflected in this new authorization under the Nonmetallic Mineral Processing General Permit.

EMISSIONS LIMITATIONS

Emissions limitations are established in the Authorization to Operate as a facility-wide emissions cap in order to avoid other applicable requirements, i.e., Part 70 requirements. This cap is established at a level to not equal or exceed major source thresholds. Compliance with these emission limitations shall be determined on a monthly rolling basis. The estimate shall be annualized using a monthly average during the first 11 months following issuance of this Authorization. However, any facility with actual emissions of each regulated air pollutant less than 80% of the major source thresholds may make this determination annually.

APPLICABLE REQUIREMENTS AND MONITORING AND RECORDKEEPING REQUIREMENTS

Applicable requirements and monitoring and recordkeeping requirements for all eligible sources were identified and evaluated in development of the Nonmetallic Mineral Processing Facility General Permit. As a summary, and for informational purposes only, Table 5 lists whether or not a particular condition of the permit and any specific monitoring and recordkeeping requirement pertains to a particular emission unit proposed for this site.

INSPECTION

Herb Neumann, DEQ Regional Office at Tulsa permit writer, performed an initial operating permit inspection on June 23, 2005. Daryl Worley, Office Manager for Sherwood, and Randal Beeson, Enercon consultant for Sherwood, were present, with Mr. Worley providing a walk-through of the facility. Most of the necessary information had been supplied in advance of the physical inspection, although Subpart OOO opacity testing results were requested at this meeting and were supplied the next day. All equipment was found to be as described in the application.

PERFORMANCE TESTING

The processing equipment at a nonmetallic minerals processing facility which commenced construction or modification after August 31, 1983, is subject to 40 CFR 60, Subpart OOO. Since all of the equipment at this facility was constructed after the promulgation of this subpart, each was subject to performance testing as required by the subpart. Opacity standards are identified in 40 CFR 60.672 and the testing methods and requirements are described in 40 CFR 60.675.

There are no capture systems, so the provisions of §672(a) do not apply. Emissions from belt conveyors are limited to 10% opacity by §672(b). Because there is no capture system, emissions from crushers are limited to 15% opacity by §672(c). Truck dumping is exempt from opacity limits per §672(d). Finally, wet screening and all subsequent operations of saturated materials up to the next crusher, grinding mill, or storage bin shall have no visible emissions (0% opacity) per §672(h). Air Hygiene International performed opacity monitoring for the crushers and for all transfer points on March 14–16, 2005. All conveyor transfer points, including the radial stackers, had zero emissions (0% opacity). The primary crusher had average opacity of 0.71%, with a maximum six-minute reading of 1.60%. The secondary crusher had average opacity of 2.00%, with a maximum six-minute reading of 3.94%. This test demonstrated initial compliance with all applicable standards.

TIER CLASSIFICATION AND PUBLIC REVIEW

The application associated with this Authorization under the GP is classified as **Tier I**, per OAC 252:2-15-40(c)(1), effective June 15, 2005. Since the Nonmetallic Mineral Processing Facility General Permit has previously undergone public review (notice published on September 30, 1999, in the *Tulsa World* and the *Daily Oklahoman*), no site-specific public review is required. The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant uses the land by lease.

FEES PAID

The Nonmetallic Mineral Processing Facility General Permit Construction Authorization fee is $400 and the Operating Authorization fee is $150. Applicant submitted $1,000 and a refund of the $450 overpayment will be processed upon issuance of the Authorization.

SUMMARY

The applicant has met all the requirements of the Nonmetallic Mineral Processing Facility General Permit issued on May 9, 2000. Ambient air quality standards are not threatened at the site. Issuance of the Authorization to Operate is recommended.

Table 5: SUMMARY OF MONITORING & RECORDKEEPING REQUIREMENTS

Emission Unit (EU) and (ID)	Applicable Condition	Description	Monitoring and Recordkeeping	Currently Subject?	Comments
Emissions Limitations	Part 2/I/A	Facility-wide Emissions Cap	Annual emissions record	Y	Applicable to all EUGs.
	Part 2/I/B	NSPS Opacity Limits	Per NSPS Subpart OOO	Y	Applicable to EUG1.
	Part 2/I/C	Hourly PM Limits	Not applicable at this time[1]	N	
	Part 2/I/D	Engine Conc. Limits	Not applicable at this time[1]	N	
Nonmetallic Mineral Processing Equipment (EUG1)	Part 2/II/A	Operating Records	Daily & cum. annual hours of operations and throughput, control technology used	Y	
	Part 2/II/B	NSPS OOO	Per NSPS Subpart OOO	Y	
	Part 2/II/C	Added Equipment	Written notification to the agency Records of performance tests	Y	
	Part 2/II/D	Existing Source	Submit copy of any report submitted to EPA per 40 CFR 60.7	Y	
Storage Tanks (EUG2)	Part 2/III/A	SC 37/39	Permanent Submerged Fill Pipe (400 gal. or more)	Y	
	Part 2/III/B	Emission Limits	Records of contents, throughput, and other items.	Y	
	Part 2/III/C	NSPS Kb	NA	N	
Facility-wide	Part 2/V/A	Equipment Inventory	Maintain Equipment Inventory Notify AQD of equipment change	Y	
	Part 2/V/B	Recordkeeping	Emissions record	Y	
	Part 2/V/C	Open Burning	Per OAC 252:100-13	Y	No open burning at this time
	Part 2/V/D	Opacity Monitoring[1]	Quarterly Method 22 or Method 9 Maintain record per 40 CFR Part 60, Appendix A	N	Applicable to Non-NSPS equipment
	Part 2/V/E	Dust Complaints	Maintain a complaint log	Y	
	Part 2/V/F	Dust Suppression	Test Method Records	Y	
Appendix A	A/A - B	Control Devices	No recordkeeping required	N	
	A/C - D	Dust Suppression	Wet suppression system maintenance log	Y	
	A/E – F	Baghouses/Scrubbers	Not applicable at this time[1]	N	
	A/G	Catalytic Converters	Not applicable at this time[1]	N	
	A/H	Recordkeeping	Per Part 4 of the permit	Y	

[1] Monitoring and Recordkeeping are not currently required for these emission units. Could become applicable in future if emissions exceed 80% of the major source threshold (due to increasing equipment capacity, or adding larger engines, or adding large storage tanks with higher throughput), or if adding Non-NSPS equipment.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

July 14, 2005

Sherwood Construction Company, Inc.
Attn: John R. Curtis, Manager
P.O. Box 10
Catoosa, OK 74015

Subject: Authorization to Operate No. **2005-012-O**
Greenhill Materials
Section 10, T20N, R14E, Rogers County, Oklahoma

Dear Mr. Curtis:

Enclosed is the Authorization to Operate for the referenced facility. Please note that this Authorization is issued subject to conditions of the Nonmetallic Mineral Processing Facility General Permit, which is attached. These conditions must be carefully followed since they define the limits of the permit and will be confirmed by periodic inspections.

Also note that you are required to annually submit an emissions inventory for this facility. An emissions inventory must be completed on approved AQD forms and submitted (hardcopy or electronically) by March 1st of every year. Any questions concerning the form or submittal process should be referred to the Emissions Inventory Staff at 405-702-4100.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 293-1600. Air Quality personnel are located in the DEQ Regional Office at Tulsa, 3105 E. Skelly Drive, Suite 200, Tulsa, OK, 74105.

Sincerely,

Herb Neumann
AIR QUALITY DIVISION

enclosures: 1. Nonmetallic Mineral Processing Facility General Permit
2. Authorization to Operate

copy: DEQ Office, Claremore

printed on recycled paper with soy ink

AUTHORIZATION TO OPERATE

PURSUANT TO THE TERMS OF THE NONMETALLIC MINERAL PROCESSING FACILITY GENERAL PERMIT

Air Quality Division
State of Oklahoma
Department of Environmental Quality
707 North Robinson
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Authorization No.: 2005-012-O

Effective Date: JUL 12 2005

Facility Name: Greenhill Materials **SIC Code:** 1422

Facility Location: Section 10, T20N, R14E, Rogers County, OK

Company Name: Sherwood Construction Company, Inc.

Mailing Address: P.O. Box 10, Catoosa, OK, 74015

Contact Person: John R. Curtis, Manager (918-266-6861)

This Authorization is issued pursuant to **OAC 252:100-7-15 and 252:100-7-18.**

Authorization is hereby granted the above named entity to operate the emission units, emission points, and other processes listed herein which are located at the above described minor facility (Facility) pursuant to the terms of the Nonmetallic Mineral Processing Facility General Permit as issued by the Oklahoma Department of Environmental Quality, Air Quality Division, on May 9, 2000. The Authorization addresses only those emission sources listed herein and only while located at the Facility.

Chief Engineer, Air Quality Division

Except as otherwise prohibited or limited by the Permit or this Authorization, the permittee is hereby authorized to construct the following emissions sources and/or conduct the following activities at the referenced site, described in the application received on June 2, 2005. The Evaluation Memorandum, dated July 12, 2005, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operation under this permit constitutes acceptance of, and consent to, the conditions contained herein.

I. Emission Units and Numerical Limitations

Emission limitations are hereby established for all regulated pollutants as a facility-wide cap. Emissions from all emission units at the facility shall not equal or exceed major source thresholds, i.e., 100 TPY of any regulated pollutant or 10 TPY of any single HAP or 25 TPY of any combination of HAPs.

Compliance with these emission limitations shall be determined on a monthly rolling basis. The estimate shall be annualized using a monthly average during the first 11 months following issuance of this Authorization. However, any facility with actual emissions of each regulated air pollutant less than 80% of the major source thresholds may make this determination annually. The facility throughput shall be maintained at such a level as to not exceed the annual facility-wide emissions limitations.

II. Monitoring and Recordkeeping Requirements

The permittee shall demonstrate continued compliance with any emission limitations or any operational conditions as specified in the permit (summarized in Table 5 of the Evaluation Memorandum).

III. Equipment Additions/Authorization Modifications

Construction of additional emission units (as provided by the Nonmetallic Mineral Processing Facility General Permit), or operational changes (e.g., changes in tank contents to another organic liquid or increases in throughput), may be allowed over the life of this Authorization without obtaining an Authorization to Construct so long as facility-wide emissions do not exceed that amount which would cause the facility to be classified as a major source.

Written notification of intent to construct, or to make operational changes (e.g., changes in tank contents or increases in throughput), must be provided to DEQ within 7 days of the start of operation. Neither an Authorization to Construct nor a new Authorization to Operate is required for these changes.

Operation of additional emission units authorized under an individual construction permit (e.g., those requiring a site-specific determination) requires issuance of a new Authorization to Operate for the facility (see Part 4, section II.C of the permit). The permittee shall make application for a

new Authorization to Operate within 60 days of commencing operation of such additional emission units.

IV. Previous Permits

The facility has been operating under Permit No. 99-034-O, which is an individual source minor permit. Construction of certain equipment at this location was completed before this permit was issued. Conditions to meet and document compliance with all applicable requirements that would have been required by issuance of a construction permit have been addressed in development of this Authorization to Operate. Thus, issuance of this Authorization to Operate will satisfy the outstanding requirement to obtain a construction permit for the facility.

V. Equipment List

The inventory listed in Table A shows the emission units at the facility.

Table A Emission Units

Emission Unit EUG & ID#	Description	Const. Date	NSPS Subpart
1-Unload01	Truck unloading	1994	-
1-CRSH001	Crusher, Primary	7/01	OOO
1-CRSH002	Crusher, secondary	1994	OOO
1-SCR001	Primary screen	8/03	OOO
1-SCR002	Secondary screen	1994	OOO
1-CONV001	Transfer point	1994	OOO
1-CONV002	Transfer point	1994	OOO
1-CONV003	Transfer point	1994	OOO
1-CONV004	Transfer point	1994	OOO
1-CONV005	Transfer point	1994	OOO
1-CONV006	Transfer point	1994	OOO
1-CONV007	Transfer point	1994	OOO
1-CONV008	Transfer point	1994	OOO
1-CONV009	Transfer point	2001	OOO
1-CONV010	Transfer point	2001	OOO
1-CONV011	Transfer point	2001	OOO
1-CONV012	Transfer point	2001	OOO
1-CONV013	Transfer point	2001	OOO
1-RS01	Transfer point	1994	OOO
1-RS02	Transfer point	1994	OOO
1-RS03	Transfer point	2001	OOO
1-RS04	Transfer point	2001	OOO
1-RS05	Transfer point	2001	OOO
1-SP01	Stockpiles (1.8 acres)	1994	OOO
1-SS01	Sand screw	2003	OOO
2-Tank001	8,000 gallon diesel tank	2005	-
Fugitives	Unpaved roads	-	-

AIR QUALITY
GENERAL PERMIT TO CONSTRUCT/OPERATE NONMETALLIC MINERAL PROCESSING FACILITIES
(For Minor Facilities)

OKLAHOMA

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
707 NORTH ROBINSON, P. O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

In compliance with the provisions of the Oklahoma Clean Air Act, as amended (Oklahoma Statutes title 27A, §§ 2-5-101 to -118 (Supp. 1998)), and rules promulgated thereunder, operators of nonmetallic mineral processing facilities, as described under Part 1, Section II, are hereby granted permission to construct/operate such facilities as specified in an Authorization to Construct/Operate (hereinafter referred to as an "Authorization") issued under this general permit by the Department of Environmental Quality (DEQ). Parts 1 through 4 and Appendix A of this permit specify emissions limitations and standards that constitute applicable requirements, including state-only requirements, and include operational requirements and limitations necessary to assure compliance with all applicable requirements.

The owner or operator of a nonmetallic mineral processing facility may request that the facility be granted an Authorization to Construct/Operate in accordance with this general permit by submitting to the Air Quality Division (AQD) a complete set of General Permit Application Forms for Nonmetallic Mineral Processing Facilities. Eligible facilities may apply for coverage under this permit at any time during the permit term. No source, or part thereof, is authorized to construct/operate pursuant to the terms of this general permit unless an Authorization has been issued for that source.

This permit shall become effective on May 9, 2000.

Signed and issued this 9th day of May, 2000.

_____ Eddie Terrill, Director, Air Quality Division

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PART 1 - REQUIREMENTS FOR GENERAL PERMITS

This permit is issued for the nonmetallic mineral processing facility source category to establish (A) terms and conditions to implement applicable requirements, including state-only requirements, (B) terms and conditions to implement applicable requirements, including state-only requirements for specified categories of changes to those permitted sources, (C) terms and conditions for new requirements that apply to sources with existing permits, and (D) federally-enforceable caps on emissions. The permit is issued after finding that there are several permittees, permit applicants, or potential permit applicants who have the same or substantially similar operations, emissions, activities, or facilities; the permittees, permit applicants, or potential permit applicants emit the same types of regulated air pollutants; the operations, emissions, activities, or facilities are subject to the same or similar standards, limitations, and operating requirements; and the operations, emissions, activities, or facilities are subject to the same or similar monitoring requirements.

SECTION I. AUTHORITY

This permit is developed in accordance with the provisions of OAC 252:100-7-15 and 100-7-18.

SECTION II. ELIGIBILITY

A. This permit is limited to air pollutant emitting sources located at facilities that

1. are designed and operated for the primary purpose of crushing, screening, transferring, and other miscellaneous processing of nonmetallic minerals. Nonmetallic mineral means any of the following minerals or any mixture (including recycled materials) of which the majority is any of the following:

   a. Crushed and broken stone, including limestone, dolomite, granite, traprock, sandstone, quartz, quartzite, marl, marble, shale, oil shale, and shell.
   b. Sand and gravel.
   c. Clay including kaolin, fireclay, bentonite, Fuller's earth, ball clay, and common clay.
   d. Rock salt.
   e. Gypsum.
   f. Sodium compounds, including sodium carbonate, sodium chloride, and sodium sulfate.
   g. Pumice.
   h. Gilsonite.
   i. Talc and pyrophyllite.
   j. Boron, including borax, kernite, and colemanite.
   k. Barite.
   l. Flourospar.
   m. Feldspar.
   n. Diatomite.
   o. Perlite.
   p. Vermiculite.

q. Mica.
r. Kyanite, including andalusite, sillimanite, topaz, and dumortierite.

Nonmetallic minerals do not include coals of any type.

B. The following types of facilities are generally eligible for coverage under this permit:

1. Facilities with existing state construction and/or operating permits.

2. Facilities existing prior to the effective date of any applicable standard that would have created specific quantifiable and enforceable emission rates.

C. The following facilities are not eligible for this permit:

1. Facilities for which material facts were misrepresented or omitted from the application and the applicant knew or should have known of such misrepresentation or omission.

2. Facilities with emissions units subject to:

a. NSPS requirements under 40 CFR Part 60, other than those addressed by Subpart A, Subpart Kb, and Subpart OOO, or
b. NESHAP requirements under 40 CFR Part 61, or
c. NESHAP requirements under 40 CFR Part 63,

unless such requirements are specifically incorporated into the Authorization to Construct/Operate issued under this permit as provided for under Part 4, Section V of this permit.

3. Facilities with emissions units that are affected sources subject to:

a. OAC 252:100-8 (Permits for Part 70 Sources)
b. OAC 252:100-15 (Motor Vehicle Pollution Control Devices).
c. OAC 252:100-17 (Incinerators).
d. OAC 252:100-21 (Wood-burning Equipment).
e. OAC 252:100-23 (Cotton Gins).
f. OAC 252:100-24 (Grain, Feed, or Seed Operations).
g. OAC 252:100-33 (Control of Emissions of Nitrogen Oxides).
h. OAC 252:100-35 (Control of Emissions of Carbon Monoxide).
i. 40 CFR Part 59 (Consumer/Commercial Products)
j. 40 CFR Part 82, Subpart A, B, & C (Stratospheric Ozone).

4. Facilities with emission units subject to 40 CFR Part 264 emission standards (Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities).

D. The following facilities are not eligible to obtain an Authorization to Construct under this permit, but may be eligible for coverage under an Authorization to Operate if they obtain an individual construction permit and all relevant requirements and limitations in that permit are incorporated into the Authorization to Operate:

1. Facilities that are located in an area that is federally designated as non-attainment.

2. Facilities that request an Alternative Emissions Reduction Authorization under OAC 252:100-11.

3. Facilities seeking to construct or modify emission units that are not exempted from Part 5 ("Toxic Air Contaminants") of OAC 252:100-41, as specified in OAC 252:100-41-43.

4. Facilities that store VOCs with a vapor pressure greater than 1.5 psia in storage tanks built after July 1, 1972, with a capacity greater than 151 m^3 (40,000 gallons), or with a capacity greater than 400 gallons which are not equipped with a submerged fill.

5. Facilities located in Tulsa County which store gasoline or other VOCs (with vapor pressure greater than 1.5 psia) in storage tanks with a capacity greater than 2,000 gallons.

E. Facilities owned or operated by an applicant that has not paid all monies owed to the DEQ or is not in substantial compliance with the Environmental Quality Code, rules of the Board and the terms of any existing DEQ permits and orders are not eligible for this permit. The DEQ may impose specific conditions on the applicant to assure compliance and/or a separate schedule that the DEQ considers necessary to achieve required compliance. [OAC 252:002-15-30(d)(2)]

F. DEQ reserves the right to refuse issuance of an authorization to an applicant even though the facility meets the above eligibility criteria. In such a case, DEQ will provide in writing to the facility an explanation providing the reason(s) for the decision.

PART 2 - SPECIFIC CONDITIONS

Facilities shall be designed, constructed, and operated to meet the following terms and conditions, and any other applicable requirements specified in this permit, the facility's Authorization to Construct and/or Authorization to Operate, and any other requirements specified by rule or statute.

SECTION I. Points of Emissions and Limitations for Each Point [OAC 252:100-7-15 and 7-18]:

A. Facility-Wide Emissions Cap and Emissions Limitations

Emissions limitations shall be established in each Authorization issued under this permit as a facility-wide emissions cap. Such limitations shall be established, in tons per year (TPY), for any pollutant subject to regulation, as the potential to emit from the facility.

However, in no case shall such emissions limitations exceed that level which would cause the facility to be classified as a major source. Nor shall the permittee cause or allow the emission of any regulated air pollutant in such a concentration as to cause or contribute to a violation of ambient air quality standards or other applicable requirements.

Compliance with these emissions limitations shall be determined on a monthly rolling basis. The estimate shall be annualized using a monthly average during the first 11 months following issuance of an Authorization. However, any facility with actual emissions of each regulated air pollutant less than 80% of the major source thresholds may make this determination annually. Emissions shall be calculated using the latest approved version of AP-42 "Compilation of Air Pollution Emission Factors" or as otherwise specified in an Authorization.

The facility throughput shall be maintained at such a level so as to not exceed the annual facility-wide emissions limitations.

B. Nonmetallic Mineral Processing Equipment Subject to NSPS Subpart OOO

In addition to the facility-wide emissions cap established in Section I.A, the permittee shall comply with all applicable emissions limitations set forth in 40 CFR Part 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants, for all nonmetallic mineral processing equipment constructed or operated under this permit that commenced construction or modification after August 31, 1983.

C. Hourly PM Limits

In addition to the facility-wide emissions cap established in Section I.A, the permittee shall comply with any applicable emissions limitations set forth in the Authorization to assure compliance with OAC 252:100-27 for all emission points associated with each emissions unit constructed or operated under this permit. Such emissions limitations

shall be established for any emission point if the potential to emit exceeds 80% of the allowable rate given in Appendix G of OAC 252:100. For each emission point subject to such emissions limitations the permittee shall calculate and keep records of the hourly rate of emissions, in lbs/hr. The hourly rate of emissions shall be calculated as the daily throughput divided by the hours of operation for that day.

D. Concentration Limitations for Engines

In addition to the facility-wide emissions cap established in Section I.A, the permittee shall comply with any applicable emissions limitations set forth in the Authorization for all engines constructed or operated under this permit. Such limitations shall be established for each engine if actual emissions of the entire facility equals or exceeds 80% of the major source thresholds for NO_x or CO or for any engine with a catalytic converter. The permittee shall conduct testing of each engine subject to emissions limitations and calculate ppm values for NO_x and CO using the following equations.

$$\text{Stack Flow (SCFH)} = \frac{\text{stack flow, ACFM} * 60\ \text{min / hr} * 528^\circ\text{R}}{(460 + \text{stack temp,}^\circ\text{F})}$$

$$\text{Moisture Content} = \frac{2 * \text{fuel usage (SCFH)}}{\text{stack flow (SCFH)}}$$

$$\text{ppm NOx} = \frac{\text{NOx emissions (lb / hr)} * 380\ \text{SCF / lb - mole}}{\text{stack SCFH} * 30\ \text{lb / lb - mole} * (1 - \text{moisture content})} \times 10^6$$

$$\text{ppm CO} = \frac{\text{CO emissions (lb / hr)} * 380\ \text{SCF / lb - mole}}{\text{stack SCFH} * 28\ \text{lb / lb - mole} * (1 - \text{moisture content})} \times 10^6$$

1. For each engine subject to emissions limitations the permittee shall conduct, at least once per calendar quarter, tests of NO_x and CO concentrations in exhaust gases. Testing is required for any engine which runs for more than 220 hours during that calendar quarter. Testing shall be conducted when operating under representative conditions for that period using portable engine analyzers or an equivalent method approved by Air Quality.

   a. Three test runs shall be conducted at 90% or greater of the full load as stated in the Authorization, if possible. Exceptions to this full load testing must be documented.
   b. For each test, the following engine operating parameters shall be monitored (or calculated by an accepted method) and clearly described in the sampling report: air-fuel ratio, exhaust O_2 content, percent water in the exhaust, stack temperature, engine speed, and horsepower.
   c. After a correlation is established between the load and the concentration of a pollutant, the periodic testing may consist of only testing the pollutant

concentration. Exhaust flow rates at the time of correlation (by 40 CFR Part 60 – Method 19, by manufacturer's correlation, or during initial testing) may be used to calculate the emission rates for later tests.

SECTION II. Nonmetallic Mineral Processing Equipment

The following specific conditions apply to nonmetallic mineral processing equipment:

A. The permittee shall keep the following records of operations for any nonmetallic mineral processing equipment operated under this permit. [OAC 252:100-27-2 (c)].

1. Hours of operation (daily and cumulative annual) of each piece of processing equipment, or the operation as a whole. If hours of operation are kept for the whole operation, the hours shall be based on whenever any piece of mineral processing equipment is operating at the site, i.e., startup and shutdown of the facility.
2. Throughput (daily and annual). The daily throughput shall be calculated by measuring or estimating either the weight or volume of the average size truckload or loader bucket and counting the number of truckloads or bucket loads per day. The cumulative annual throughput shall be calculated as the sum of the daily throughputs over the last calendar year.
3. Type of control technology used, if any.

B. The permittee shall comply with all applicable requirements set forth in 40 CFR Part 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. Subpart OOO applies to affected facilities that commenced construction or modification after August 31, 1983.

C. If a facility is added to the site which is subject to NSPS, written notification of the actual date of initial startup shall be sent to the Executive Director within 7 days of such date. If the added equipment has not undergone performance testing as required under 40 CFR §60.8, the notification shall include a date and time that such testing will be conducted.

D. Facilities seeking an Authorization for an existing source (constructed prior to the effective date of this permit) shall include a copy of any reports previously submitted to EPA under 40 CFR §60.7 with their application for the Authorization. Such copies are not required if they have previously been submitted to AQD and the application lists the dates of submission.

SECTION III. Storage Tanks

The following specific conditions apply to storage tanks:

A. Volatile Organic Compound (VOC) storage tanks built after July 1, 1972, and with a capacity of 400 gallons or more storing a liquid with a vapor pressure of 1.5 psia or greater under actual conditions shall be equipped with a permanent submerged fill.
[OAC 252:100-37-15(b) and 252:100-39-41(b)]

B. The permittee shall maintain an operational record for all storage tanks located at the facility. The record shall include the tank identification number, tank or vessel capacity (gallons), name of the material stored, vapor pressure (in psia), and purchase records.

C. The permittee shall comply with all applicable requirements set forth in 40 CFR Part 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Tank(s), constructed or operated under this permit. Subpart Kb applies to certain VOC storage vessels for which construction, reconstruction, or modification commenced after July 23, 1984.

SECTION IV. Internal Combustion Engines

The following specific conditions apply to IC Engines:

A. IC engines and all associated control technology installed under this permit shall be constructed, operated, and maintained according to manufacturers' specifications, except as otherwise required by this permit, the facility's Authorization to Construct/Operate, or applicable rules or statutes. Control technology shall be constructed, operated, monitored, and maintained as specified under this paragraph and in accordance with Appendix A.

B. The permittee shall conduct, within 7 days of start-up, a test of NOx and CO concentrations in exhaust gases from any engine subject to emissions limitations in Section I.D. of this permit. Testing shall be conducted when operating under representative conditions using a portable engine analyzer or other equivalent method approved by Air Quality. Initial and continued emissions testing for all engines shall be conducted in accordance with Section I.D. of this permit. A copy of the initial test shall be provided to AQD within 30 days of start-up of each such engine. Said copy shall include the engine make and model, horsepower rating, fuel usage, stack flow (ACFM), stack temperature (°F), stack height (feet), stack diameter (inches), and pollutant emissions rates (g/hp-hr, lbs/hr, and TPY) at maximum rated horsepower for the altitude/location.

C. The permittee shall monitor and record start and stop times, measured to the nearest hourly period, of any engine operated under this permit. In addition, the permittee shall record the monthly hours of operation.

D. IC engines operated under this permit shall be fueled only with pipeline-quality natural gas or diesel with less than 4,000 ppm sulfur content. Certification by an applicant in the application for an Authorization to Operate that pipeline-quality natural gas is used at the

facility to fuel such equipment shall be sufficient to document compliance with this requirement. [OAC 252:100-31]

For IC engines fueled by diesel, the permittee shall provide with the application a fuel composition analysis that shows total sulfur content. Thereafter, the permittee shall perform a fuel composition analysis that shows total sulfur content once per load received and shall maintain records of the required fuel composition analysis. A one-time certification of sulfur content of a grade of fuel, with subsequent receipts stating the fuel grade delivered from the supplier, is sufficient to document compliance with this requirement. A new certification shall be obtained from each new supplier.

E. The permittee shall at all times operate and maintain all IC engines and associated emissions control systems in a manner that will minimize emissions of VOCs and will achieve compliance with the conditions of this permit and any Authorization issued to the permittee hereunder. Among other things, such operation shall assure that the equipment is not overloaded, that it is properly cleaned and maintained, and that temperature and available air are sufficient to provide essentially complete combustion.

The permittee shall keep operation and maintenance records for each engine subject to emissions limitations in Section I.D. of this permit. Such records shall at a minimum include the work performed, the date on which it was performed, and the increase, if any, in emissions as a result. [OAC 252:100-37-36]

SECTION V. Facility-wide Requirements

The following specific conditions apply **facility-wide.**

A. The permittee shall maintain records of all changes to facility equipment (i.e., addition, removal, or replacement) subject to this permit. The records shall include the equipment description, equipment serial or identification number, date of the change, description of the change, NSPS applicability, annualized potential emissions for each emission source, and the annualized potential emissions for the facility. A copy of this record shall be provided with the notification required by Part 4, Section II.C. of this permit. If equipment is being added subject to NSPS which has not undergone the initial compliance demonstration as required by 40 CFR 60.8, the notification shall include a date and time for such required demonstration. [OAC 252:100-6-31]

B. The permittee shall maintain records of emissions and any compliance demonstrations required by this permit. An emissions record shall describe calculated emissions of regulated air pollutants from all emissions units. This record shall include the emissions unit identification number, control method used, and other operating parameters as specified in specific conditions for each particular emissions unit. A copy of the records or a summary including sample calculations shall be submitted with the application for an Authorization to Operate under this permit.

C. Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in OAC 252:100-13, Prohibition of Open Burning. [OAC 252:100-13]

D. The permittee shall conduct quarterly visual observations of emissions, in accordance with 40 CFR Part 60, Appendix A, Method 22, from all emissions units not subject to an opacity limit promulgated under NSPS OOO. In no case shall the observation period for Method 22 be less than one minute in duration. If visible emissions exceed one minute in duration for any observation period and such emissions are not the result of a malfunction, then the permittee shall take immediate corrective actions to reduce the opacity. Following implementation of corrective actions, a Method 22 will be conducted to determine if the corrective actions were successful. If visible emissions are still observed following implementation of corrective actions, then the permittee shall conduct, within 24 hours, a visual observation of emissions in accordance with 40 CFR Part 60, Appendix A, Method 9. When four consecutive quarterly Method 22 or Method 9 observations show no visible emissions or no emissions of a shade or density greater than twenty (20) percent equivalent opacity, respectively, the frequency may be reduced to semi-annual visual observations using Method 22 testing, as above. Likewise, when the following two consecutive semi-annual tests show compliance, the testing frequency may be reduced to annual testing. Upon any showing of non-compliance, the testing frequency shall revert to quarterly.

If a Method 9 observation exceeds 20% opacity, the permittee shall conduct a minimum of seven additional observations continuing through the next operational day, not to exceed 24-hours. The Method 9 observations shall be conducted at a frequency of at least two per any one-hour period, performed at least once every quarter of the operational day. If any additional Method 9 observation exceeds twenty (20) percent opacity and such emissions are not the result of a malfunction, then the permittee shall conduct monthly visual observations of emissions in accordance with 40 CFR Part 60, Appendix A, Method 9. When four consecutive quarterly Method 9 observations show no emissions of a shade or density greater than twenty (20) percent equivalent opacity, the permittee may revert to quarterly visual observations using Method 22 testing as above.

If more than one six-minute Method 9 observation exceeds 20% opacity in any consecutive 60 minutes, or more than three six-minute Method 9 observations in any consecutive 24 hours exceed 20% opacity, or any six-minute Method 9 observation exceeds 60% opacity, the permittee shall report such observation(s) as a deviation, in accordance with Part 4, Section III of this permit.

E. The permittee shall implement reasonable precautions or measures to minimize fugitive dust emissions from the handling, transporting or disposition of any substance or material which is likely to be scattered by the air or wind or is susceptible to being air-borne or wind-borne. In addition, the permittee shall not cause or permit the discharge of any visible fugitive dust emissions beyond the permittee's property line in such a manner as to

damage or to interfere with the use of adjacent properties, or to cause or contribute to the violation of ambient air quality standards. [OAC 252:100-27 & 29]

The permittee shall either respond, within 48 hours, to any written or oral concern expressed by a citizen (complaint) that alleges site-specific pollution from the release of fugitive dust from any facility authorized under this permit, or refer the complaint to DEQ for response and investigation within one working day. Such response shall include conducting an investigation to determine the cause and action necessary to resolve the complaint, including any needed corrective action. Any referral to DEQ shall be made orally, and in writing to the DEQ central office with a written copy to the appropriate DEQ district office. The permittee shall keep the following records to document resolution of complaints. [OAC 252:100-29]

1. Date, time, name, address, and phone number of person reporting complaint.
2. Date, time, and nature of incident/discovery.
3. Date, time, and DEQ contact person.
4. Person assigned to investigate complaint.
5. Results of investigations to determine the cause of the complaint.
6. Date and nature of action taken (including corrective action taken, if any) to resolve the complaint.

F. Emissions units, and control devices associated with any emission units constructed under this permit, shall comply with all applicable requirements of OAC 252:100-45 - Monitoring of Emissions, and Appendix A of this permit.

The permittee shall install, use, and maintain such monitoring equipment as specified in Appendix A of this permit, except as otherwise specified elsewhere in this permit or the facility's Authorization to Construct/Operate, or applicable rules or statutes.

The permittee shall document that all testing is conducted using methods specified in 40 CFR Parts 51, 60, 61, 63, or 75, as applicable, or as otherwise specified in this permit or the Authorization to Construct/Operate. A copy of these records shall be retained with the records containing the facility's test results.

Part 3 – Schedule of Compliance

Any facility reporting non-compliance in an application for Authorization under this permit must submit with such application a schedule of compliance for emissions units or stationary sources that are not in compliance with all applicable requirements.

A. This schedule shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the emissions unit or stationary source is not in compliance.

B. This compliance schedule shall correspond to and be at least as stringent as that contained in any judicial consent decree or administrative order to which the emissions unit or stationary source is subject.

D. Any such schedule of compliance shall be supplemental to, and shall not sanction non-compliance with, the applicable requirements on which it is based.

E. The approvable schedule of compliance may be incorporated into an Authorization if such is issued to the facility.

F. The permittee of a facility that is operating subject to a schedule of compliance shall submit to AQD progress reports at least semi-annually. The progress reports shall contain dates for achieving the activities, milestones or compliance required in the schedule of compliance and the dates when such activities, milestones or compliance was achieved. The progress reports shall also contain an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Part 4 – Standard Conditions

SECTION I. DUTY TO COMPLY

The permittee shall comply with all conditions of this permit and any Authorizations issued hereunder. This permit does not relieve the holder of the obligation to comply with other applicable federal, state, or local statutes, regulations, rules, or ordinances. Any permit non-compliance shall constitute a violation of the Oklahoma Clean Air Act and shall be grounds for enforcement action, for revocation of the approval to operate under the terms of this general permit or for denial of an application to operate under the terms of this general permit.

[OAC 252:100-7-15 and 7-18]

SECTION II. FACILITY MODIFICATIONS AND MODIFICATION OF AUTHORIZATIONS TO CONSTRUCT/OPERATE UNDER THE TERMS OF THE GENERAL PERMIT

A. An Authorization shall be corrected if any applicable emission limitation or standard is found to be absent or is found to be in error. Correction of an Authorization shall not change the Effective Date of the Authorization.

B. The permittee shall obtain an individual construction permit for any modification that would cause an existing facility to no longer be classified as a minor facility.

C. The permittee shall obtain an individual construction permit for any modification described under Part 1, Section II.D. of this permit. All other facility modifications may be constructed without an Authorization to Construct, or individual construction permit, provided that the permittee notifies the DEQ in writing of the intent to construct and operate within 7 days of the start of operation.

D. The permittee shall apply for a new Authorization to Operate within 60 days of commencing operation of any modified facility authorized under an individual construction permit, or Authorization to Construct issued under this permit, except for a de minimis facility.

[OAC 252:100-7-15(a)]

D. The permittee shall apply for either a new Authorization to Operate or a relocation permit to relocate any portable source authorized under this permit. [OAC 252:100-7-17]

E. An Authorization to Construct issued under this permit will terminate and become null and void if the construction is not commenced within 18 months of the issuance date, or if work is suspended for more than 18 months after it has commenced. [OAC 252:100-7-15(f)]

SECTION III. REPORTING OF DEVIATIONS FROM PERMIT TERMS

A. Deviations from the requirements of this permit shall be reported to the Air Quality Division as follows:

1. Deviations which result in emissions exceeding those allowed in this permit or the Authorization shall be reported pursuant to OAC 252:100-9, Excess Emission and Malfunction Reporting Requirements. Requirements of OAC 252:100-9 include prompt notification to AQD and prompt commencement of repairs to correct the condition of excess emissions.

B. Oral notifications may be made to the air quality representative of the DEQ central office. Written notifications shall be made to the DEQ central office with a copy to the appropriate DEQ district office.

SECTION IV. MONITORING, RECORDKEEPING & REPORTING

A. The permittee shall keep records as specified in this permit and any authorization issued under this permit. These records, including monitoring data and support information, shall be retained on site or at a nearby field office for a period of at least two years unless a longer period is specified by an applicable rule or statute. Support information includes all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit or the Authorization. Where appropriate and if requested by the applicant, the Authorization will specify which records may be maintained in computerized form.

[OAC 252:100-7-15 and 7-18]

B. Any owner or operator subject to the provisions of NSPS shall maintain records of the occurrence and duration of any start-up or shutdown of the process containing such affected facilities, and shall record malfunctions in the operation of an affected facility or any malfunction of the air pollution control equipment.

[40 CFR §60.7 (b)]

C. Any owner or operator subject to the provisions of NSPS shall maintain a file of all measurements and other information required by this subpart recorded in a permanent file suitable for inspection. This file shall be retained for at least two years following the date of such measurements, maintenance, and records. [40 CFR §60.7 (d)]

D. All testing must be conducted by methods approved by the Executive Director under the direction of qualified personnel. All tests shall be made and the results calculated in accordance with test procedures described or referenced in the permit and approved by Air Quality. [OAC 252:100-43]

E. The permittee shall document that all testing is conducted using methods specified in 40 CFR Parts 51 (SIP), 60 (NSPS), 61 (NESHAP), 63 (MACT), or 75 (CEM), as applicable, or as

otherwise specified in this permit or the Authorization to Construct/Operate. A copy of these records shall be retained with facility's testing records. [OAC 252:100-45]

F. If the permittee monitors any pollutant more frequently than required by this permit, the results of this monitoring shall be included in the calculations used for determining compliance with the conditions of this permit.

G. The permittee shall submit to AQD a copy of all reports submitted to EPA as required by 40 CFR Part 60, 61, and 63, for all equipment constructed or operated under this permit subject to such standards. [OAC 252:100-41-15]

SECTION V. REQUIREMENTS THAT BECOME APPLICABLE DURING THE PERMIT TERM

Any Authorization issued under this permit after the effective date of any new or modified requirements or standards that are applicable to any units located at the facility, may incorporate such requirements or standards, which shall supersede any corresponding requirements of this permit which are less stringent than the newer requirements or standards.
[OAC 252:100-7-15(a) and 7-18]

SECTION VI. ANNUAL EMISSIONS INVENTORY AND FEE PAYMENT

A. The permittee shall file with the AQD an annual emission inventory and shall pay annual fees based on emissions inventories or allowable emissions. [OAC 252:100-5]

B. The permittee shall use best available data to calculate emissions for inventory purposes. If emission factors provided by the permittee in the application were used to establish the emission limits of the permit, then the same factors may be used to calculate actual emissions for the inventory. [OAC 252:100-5-2.1(d)]

SECTION VII. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

SECTION VIII. PROPERTY RIGHTS

A. This permit does not convey any property rights of any sort or any exclusive privilege.

B. This permit shall not be considered in any manner affecting the title of the premises upon which the equipment is located and does not release the permittee from any liability for

damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which the permit is issued.

SECTION IX. DUTY TO PROVIDE INFORMATION

A. The permittee shall furnish to the DEQ upon receipt of a written request and within sixty (60) days of the request, unless the DEQ specifies another time period, any information that the DEQ may request to determine whether cause exists for modifying, reopening, or revoking and reissuing or terminating the permit or to determine compliance with the permit or the Authorization. [27A O.S. Supp. 1999, § 2-5-105(18)]

B. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 27A O.S. Supp. 1999, § 2-5-105(18). Confidential information shall be clearly labeled as such and shall be separable from the main body of the document such as in an attachment.

C. Notification to the AQD of the sale or transfer of ownership of this facility is required and shall be made in writing within 10 days after such date.

[OAC 252:100-7-2(e)]

SECTION X. DUTY TO SUPPLEMENT

The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in any information submittal, shall promptly submit such supplementary facts or corrected information. [OAC 252:100-6-50]

SECTION XI. REOPENING, MODIFICATION AND REVOCATION

A. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit or an Authorization modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [27A O.S. Supp. 1999, § 2-5-112(B)(1)]

B. The permitting authority will reopen and revise or revoke this permit as necessary to remedy deficiencies if the DEQ or the EPA determines that this permit contains a material mistake or that the permit must be revised or revoked to assure compliance with the applicable requirements. [27A O.S. Supp. 1999, § 2-5-112(B)(3)]

C. If "grandfathered" status is claimed and granted for any equipment covered by this permit, it shall only apply under the following circumstances:

1. It only applies to that specific item by serial number or some other permanent identification.

2. Grandfathered status is lost if the item is significantly modified or, if it is a portable source, it is relocated outside of the boundaries of the facility without a relocation permit.

SECTION XII. INSPECTION AND ENTRY

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the DEQ to perform the following (subject to the permittee's right to seek confidential treatment pursuant to 27A O.S. Supp. 1999, § 2-5-105 (18) for confidential information submitted to or obtained by the DEQ under this section):

A. enter upon the permittee's premises during reasonable/normal working hours where a source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit or the Authorization;

B. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit or the Authorization;

C. inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit or the Authorization; and

D. sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or the Authorization.

[27A O.S. Supp. 1999, § 2-5-105]

SECTION XIII. DE MINIMIS FACILITIES

The permittee is hereby authorized to operate emissions sources and/or conduct activities that are listed on the "De Minimis Facilities" list in OAC 252:100, Appendix H.

SECTION XIV. GENERAL PROVISIONS UNDER NSPS AND NESHAPS

The permittee shall comply with all applicable requirements of the corresponding General Provisions, as set forth in 40 CFR Part 60 Subpart A, 40 CFR Part 61 Subpart A, and 40 CFR Part 63 Subpart A, for all equipment constructed or operated under this permit subject to NSPS or NESHAPs.

[OAC 252:100-41-15]

APPENDIX A

CONSTRUCTION, OPERATION, MAINTENANCE AND MONITORING REQUIREMENTS FOR CONTROL DEVICES

A. All control devices shall be constructed, operated, and maintained according to manufacturers' specifications, except as otherwise required by this permit, the facility's Authorization to Construct/Operate, or applicable rules or statutes.

B. If parametric monitoring is conducted in lieu of direct emissions monitoring, the permittee shall demonstrate in the application for an Authorization to Operate that the operating range for such parameters, as recommended by manufacturers' specifications, assures compliance with applicable emissions limitations and other applicable requirements.

C. Fugitive road dust shall be controlled as needed to maintain compliance with Part II – Section V.F. standards by applying water and/or chemical spray to the road.

D. Water/chemical spray dust suppression systems on nonmetallic minerals processing equipment and transfer points must be operated on either a continuous or intermittent basis, depending on whether processed materials contain sufficient moisture such that operation of the plant does not cause a violation of applicable limitations.

Water/chemical spray dust suppression systems necessary to comply with emissions limitations shall be maintained in good operating condition at all times regardless of whether the system is in use at the time. At a minimum, the water pump, pipe system, spray nozzles, and any gauges (e.g., water pressure) shall be inspected weekly. The permittee must maintain records of the description and the date of repairs on the water spray system.

E. Authorizations issued under this permit may specify that baghouses shall be operated continuously, or periodically as necessary to meet emissions limitations, when processing equipment is in operation and maintained according to manufacturer's specifications. At least once per month, the permittee shall inspect the baghouse cleaning system, dust removal system, and fan, and perform maintenance as needed. At least annually, or during each outage period that is longer in duration than 1 week, the permittee shall conduct a thorough baghouse inspection, including the filter bags, baghouse structure, expansion joints, turning vanes, and dampers, and conduct a review of all inspection and maintenance logs. Maintenance shall be performed as needed. The permittee shall monitor any operational parameters specified by the manufacturer as necessary to assure adequate operation of the baghouse. The permittee shall maintain logs of all visible emissions observations, baghouse inspections, operational parameters measured, and maintenance performed.

F. Authorizations issued under this permit may specify that wet scrubbers shall be operated continuously, or periodically as necessary to meet emissions limitations, when processing

equipment is in operation. At least once per day, the permittee shall monitor and record the pressure drop across the scrubber on a differential pressure gauge. At least once per day the permittee shall monitor the flow rate of the scrubbing solution using a continuous flow meter, and record the flow rate of the scrubbing solution and make-up water. Maintenance shall be performed as needed, e.g., a significant increase or decrease in pressure drop or scrubbing solution flowrate indicates a problem. The permittee shall maintain a log of all pressure drop and flow rate measurements and maintenance performed.

G. Authorizations issued under this permit may specify that catalytic converters on IC engines shall be operated as necessary to meet emissions limitations and maintained according to manufacturer's specifications.

H. All records shall be maintained in accordance with Part 4 of this permit, except as otherwise required by this permit, the facility's Authorization to Construct/Operate, or applicable rules or statutes.

Greenhill Materials Co. LC

(918) 266-6861
Fax (918) 266-6482
Post Office Box 10
Catoosa, OK 74015-0010

February 9, 2010

Mr. Herb Neumann
Oklahoma Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly, Suite 200
Tulsa, OK 74105

RE: Expansion of Greenhill Materials, LC Crusher Facility
Operating Permit No. 2005-012-O.

Dear Mr. Neumann:

Enclosed please find a Notice of Intent that we are submitting for an expansion of Greenhill Materials, LC's crusher facility. This expansion will include replacement of the primary crusher and an increase in hourly production capacity.

Also enclosed is a check in the amount of $400 for the application fee.

Please feel free to contact me at 266-6861 if you have any questions.

Sincerely,

John R. Curtis
Manager

NOTICE OF INTENT TO CONSTRUCT
MINOR SOURCE NMPF-GP

Complete this form for construction of a proposed (new) facility. Coverage under the general permit is effective upon receipt of this form by the AQD along with all the items listed in the Application Checklist provided in the instructions. The instructions describe acceptable documentation of receipt of the NOI.

Notification under any applicable NSPS and NESHAP should also be submitted according to the schedules specified in the corresponding Federal rules.

Company Name	Sherwood Construction, Inc.
Facility Name	Greenhill Materials, LC

Estimated Date of Construction	Start:	March 1, 2010	Completion:	August 1, 2010

Is Confidential Information Included?		Yes	X	No

Fees Submitted	$400	Check #	11434	Date	2/9/2010

List all current air quality permits or authorizations for the facility, if any.
2005-012-O

Notice Of Intent Certification			
This application, including all attacbments, bas been submitted as required by OAC 252:100-7-15(c). I understand that I am responsible for assuring construction and operation of tbe above facility in accordance witb tbis application, the terms of the general permit for this source category, and OAC 252:100. I certify, based on information and belief formed after reasonable inquiry, the statements and information in tbe document are true, accurate, and complete.			
Responsible Official (signature)	John R Curtis		
Responsible Official (typed)	John R. Curtis		
Responsible Official Title	Manager		

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applicants must provide notice to the landowner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:4-7-13 (b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)
	My application does not involve any land.
	My application involves only land owned by me (or applicant business).
X	I have a current lease given to accomplish the permitted purpose.
	I have a current easement given to accomplish the permitted purpose.

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	X	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		

LANDOWNER AFFIDAVIT CERTIFICATION			
Company Name	Sherwood Construction, Inc.	Facility Name	Greenhill Materials, LC
Facility Address or Legal Description	Section 10, T20N, R14E, Rogers County		
Responsible Official (signature)		Date Signed	February 9, 2010
Responsible Official (typed)	John R. Curtis	Title	Manager

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) _____

(Applicant name) _____ has filed a permit application with the Oklahoma Department of Environmental Quality for (Facility Name) _____ facility.

This application involves the land owned by you located at:

Address or Legal Description: _____

_____

Signed: _____ Date: _____

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC
FACILITY NAME: GREENHILL MATL

COMPANY ID: 1739
FACILITY ID: 3421

Company Mailing Address	STREET: 4716 N 193RD E AVE		
	CITY: CATOOSA	STATE: OK	ZIP: 74015
Facility Physical Address	STREET: 2 MI W ON HWY 266		
	CITY: CATOOSA	STATE: OK	ZIP: 74015

Status:	Active
NAICS:	212312
SIC:	1422
TRI:	

Issued Permit:	Date Issued
2005-012-O	2005-07-12

Responsible Official

Name:	JOHN CURTIS
Phone:	(918) 266-6861
Fax:	(918) 266-6482
Email:	johnc@sherwoodoklahoma.com

Notes regarding this Facility:

Facility Contact

Name:	ROB SIMMS
Phone:	(918) 266-6861
Fax:	(918) 266-6482
Email:	robs@sherwoodoklahoma.com

Facility Location: Legal Description

County:	ROGERS		
Sec Loc:		Section:	10
Town:	20N	Range:	14E

Geographic Coordinates

Latitude:	36.22819
Longitude:	-95.80579

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
1	22519	Feeder F-1 to Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23001 — Name: Feeder F-1 to Crusher CR-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121371 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
780	6200	**1618760**

Combustion Processes

Fuel Heat Input Design Capacity: 0 — NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.2240 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0110** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
2	22520	Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23002 — Name: Crusher CR-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121372 — SCC: 30502001 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
780	6200	**1618760**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.4050 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0024

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 75

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.54 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0810 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0001		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	75	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
3	22521	Crusher CR-1 to Conveyor C-1

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23003 — Name: Crusher CR-1 to Conveyor C-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	8

Process Data

Process ID: 121373 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
780	6200	**1618760**

Combustion Processes

Fuel Heat Input Design Capacity: 0 — NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.2240 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0110** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
4	22522	Conveyor C-1 to Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23004 Name: Conveyor C-1 to Conveyor C-2 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121374 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
780	6200	**1618760**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons)

Total Actual Emissions: 0.2240 Tons

Calculation Method: Permit Factors

Emission Factor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Secondary Control Device: * Uncontrolled

Primary Efficiency (%): 90

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0110** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions** 0 **Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
5	22523	Conveyor C-2 to Conveyor C-3

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23005 Name: Conveyor C-2 to Conveyor C-3 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121375 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	40469

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0060 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013	Pounds	**Numerator Units**				
Reference	Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**				
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
6	22524	Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 23006 — Name: Screen S-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121376 SCC: 30502014 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Shaker Screens

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
780	6200	**1618760**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.2240 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0110** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
7	22525	Screen S-3 to Conveyor C-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23007 Name: Screen S-3 to Conveyor C-8 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121377 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
37	250	76891

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0110 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1960 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace (<0.001 tons)	x
Calculation Method		**EmissionFactor**				**Total Actual Emissions**	
AP-42 Factors		0.000013		Pounds	**Numerator Units**	0	**Tons**
Reference		Factor Includes Control Efficiency?		Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
8	22526	Conveyor C-6 to Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23008 Name: Conveyor C-6 to Crusher CR-2 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121378 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
180	1275	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0530 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1960 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
9	22527	Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23009 — Name: Crusher CR-3 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121379 — SCC: 30502002 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Secondary Crushing/Screening

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1120	307564

Combustion Processes

Fuel Heat Input Design Capacity: 0 — NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0770 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0024

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 75

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1620 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0150 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0001		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	75	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
10	22528	Storage Piles

Notes	Unit Type	Status	Latitude	Longitude
	Open Storage Pile	Operating	36.228190	-95.805780

Emission Release Point ID: 23010 — Name: Storage Piles — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121380 — SCC: 30502007 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Open Storage

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
780	6200	1662258

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 8160

Typical Operating Periods (when process is operational): Hours/Day 24 — Days/Week 7 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 9.38 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.012

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — Primary Efficiency (%): 0

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.8530 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.001		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
0	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
11	22529	Haul Roads

Notes	Unit Type	Status	Latitude	Longitude
	Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23011 — Name: Haul Roads — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	2

Process Data

Process ID: 145141 SCC: 30502011 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
18	135	38067

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 30.50 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 5.35

Numerator Units: Pounds

Denominator Units: Miles

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 70

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 45.90 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0510 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.009		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	70	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
12	22530	Plant Roads

Notes	Unit Type	Status	Latitude	Longitude
	Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23012 — Name: Plant Roads — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 145142 SCC: 30502011 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
17	135	36254

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 1.34

Numerator Units: Pounds

Denominator Units: Miles

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 21.77 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 70

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 26.40 Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) **CAS Number:**

Trace (<0.001 tons) ☐ **Total Actual Emissions** 0.0380 **Tons**

Calculation Method	EmissionFactor		
AP-42 Factors	0.007	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	70	**Excess Emissions** 0 **Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

Process ID: 121382 **SCC:** 30502090 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305020 for diff. units), Haul Roads - General

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units Miles

Maximum Hourly	Typical Daily	Actual Annual
0	0	0

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year 0

Typical Operating Periods (when process is operational) **Hours/Day** 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions **Spring** 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) **CAS Number:**

Trace (<0.001 tons) ☐ **Total Actual Emissions** 0 **Tons**

Calculation Method	EmissionFactor		
AP-42 Factors	1.34	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	70	**Excess Emissions** 0 **Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) **CAS Number:**

Trace (<0.001 tons) ☐ **Total Actual Emissions** 0 **Tons**

Calculation Method	EmissionFactor		
AP-42 Factors	0.007	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**

Capture efficiency (%)	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions** 0 **Tons**
0	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
13	35579	Truck Unloading to Feeder F-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35416 Name: Truck Unloading to Feeder F-1 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 142420 SCC: 30502031 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
760	6000	**1618760**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons)

Total Actual Emissions: 0.0130 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.000016

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled

Secondary Control Device: * Uncontrolled

Primary Efficiency (%): 0

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.0140 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
14	35580	Front-end Loader to Rock Truck

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35417 — Name: Front-end Loader to Rock Truck — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 142421 — SCC: 30502033 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Loading: Front End Loader

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
82	640	175829

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.2550 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 60

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1390 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	60	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
15	35581	Rock Truck to Rail Car

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35418 — Name: Rock Truck to Rail Car — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142422 — SCC: 30502031 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
82	640	175829

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: 0.2550 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 60

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1390 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference		Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	60	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
16	35583	Crusher CR-2 to Conveyor C-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35419 Name: Crusher CR-2 to Conveyor C-7 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142423 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
185	1440	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0530 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1390 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
17	35584	Conveyor C-2 to Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35420 — Name: Conveyor C-2 to Screen S-2 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142424 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
370	3400	768911

Combustion Processes

Fuel Heat Input Design Capacity: 0 — NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.1060 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.1390 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
18	35590	Screen S-2 to Conveyor C-5

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35425 Name: Screen S-2 to Conveyor C-5 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142429 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
185	1450	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0530 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.0490 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
21	38267	Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 38206 — Name: Screen S-2 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145179 SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	370	2900	768911

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons)

Total Actual Emissions: 0.0920 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.0490 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0190 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.00005		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
22	38270	Screen S-3 to Conveyor C-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38209 Name: Screen S-3 to Conveyor C-10 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145182 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1150	307564

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0430 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0020 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
23	38272	Conveyor C-5 to Conveyor C-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38211 Name: Conveyor C-5 to Conveyor C-6 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145184 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
185	1450	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons)

Total Actual Emissions: 0.0530 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029 Pounds (Numerator Units) / Tons (Denominator Units)

Reference:

Factor Includes Control Efficiency?

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
24	38274	Fuel Storage Tank

Notes	Unit Type	Status	Latitude	Longitude
	Storage Tank	Operating	36.228190	-95.805780

Emission Release Point ID: 38213 — Name: Diesel Tank — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 145186 SCC: 42500101 — Is Process Data Confidential? N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Breathing Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Gallons	130	1000	278565

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 8760

Typical Operating Periods (when process is operational): Hours/Day 24 Days/Week 7 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) — CAS Number:

Calculation Method: TANKS — EmissionFactor: 0

Reference:

Factor Includes Control Efficiency?

*N/A - Formula, Software, or CEMS — Numerator Units

*N/A - Formula, Software, or CEMS — Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.0010 Tons

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — Primary Efficiency (%): 0

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.01 Tons/Year

Process ID: 145187 **SCC:** 42500102 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Working Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Gallons	120	1000	278565

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 8760

Typical Operating Periods (when process is operational)

Hours/Day 24 Days/Week 7 Weeks/Year 52

Seasonal Operating Fractions

Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: TANKS

EmissionFactor: 0

Reference:

Factor Includes Control Efficiency?

*N/A - Formula, Software, or CEMS — **Numerator Units**

*N/A - Formula, Software, or CEMS — **Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: 0.0010 Tons

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.01 Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
25	45812	Conveyor C-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45698 — Name: Conveyor C-9 to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154726 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
35	250	**76891**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: **0.0110** Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
28	45822	Crusher CR-3 to Conveyor C-12

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45707 Name: Crusher CR-3 to Conveyor C-12 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154739 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1150	315829

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0440 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0020 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
29	45823	Conveyor C-11 to Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45708 — Name: Conveyor C-11 to Crusher CR-3 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154740 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
150	1150	307564

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0430 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0020 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
32	45827	Conveyor C-7 to Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45711 — Name: Conveyor C-7 to Screen S-3 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154743 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
185	1400	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 — NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0530 Tons

Calculation Method: Permit Factors — EmissionFactor: 0.0029 — Numerator Units: Pounds — Denominator Units: Tons

Reference:

Factor Includes Control Efficiency? ☐

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
33	48741	Screen S-1 to Conveyor C-1a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48668 Name: Screen S-1 to Conveyor C-1a Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
130680	10

Process Data

Process ID: 158411 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
390	3000	809380

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference: AP-42

Trace (<0.001 tons)

Total Actual Emissions: 0.1120 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
34	48742	Conveyor C-1a to Conveyor C-1b

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48669 Name: Conveyor C-1a to Conveyor C-1b Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158413 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	809380

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons)

Total Actual Emissions: 0.1120 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
35	48743	Conveyor C-1b to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48670 — Name: Conveyor C-1b to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 158414 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	809380

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.1120 Tons

Calculation Method: Permit Factors

Reference: AP-42

EmissionFactor: 0.0029

Factor Includes Control Efficiency? ☐

Numerator Units: Pounds

Denominator Units: Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
36	48744	Screen S-1 to Conveyor C-1c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48671 Name: Screen S-1 to Conveyor C-1c Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158415 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	809380

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.1120 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
37	48745	Conveyor C-1c to Conveyor C-1d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48672 Name: Conveyor C-1c to Conveyor C-1d Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158416 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	809380

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.1120 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
38	48746	Conveyor C-1d to Conveyor C-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48673 Name: Conveyor C-1d to Conveyor C-2 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158417 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
385	3000	809380

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Pounds — Numerator Units

Tons — Denominator Units

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.1120 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0050 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
39	48747	Conveyor C-3 to Conveyor C-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48674 Name: Conveyor C-3 to Conveyor C-4 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158418 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	40469

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0060 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.0060 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
40	48748	Conveyor C-4 to Conveyor C-4a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48675 Name: Conveyor C-4 to Conveyor C-4a Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158419 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	40469

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0060 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Excess Emissions: 0 Tons

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
41	48749	Conveyor C-4a to C-11

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48676 — Name: C-4a to C-11 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158420 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	150	40469

Combustion Processes

Fuel Heat Input Design Capacity: 0 — NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0060 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0.0060 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace [x] (<0.001 tons)	**Total Actual Emissions** 0 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? [ ]	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
42	48751	Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 48680 — Name: Crusher CR-2 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13068000	10

Process Data

Process ID: 158440 SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0024

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0960 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0190 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0001		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
43	48752	Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 48681 — Name: Screen S-3 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158441 SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
175	1500	384456

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: Permit Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0460 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.01 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.00005		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
44	48753	Conveyor C-8 to Conveyor C-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48682 Name: Conveyor C-8 to Conveyor C-9 Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158442 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
35	275	**76891**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **2134**

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: ** PM-10 (All Particulate Matter <10 microns)* CAS Number:

Trace (<0.001 tons) ☐

Total Actual Emissions: 0.0110 Tons

Calculation Method: Permit Factors

EmissionFactor: 0.0029 Pounds (Numerator Units) / Tons (Denominator Units)

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

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TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
45	48754	Frontend loader to feed bins

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48683 Name: Frontend loader to feed bins Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158443 SCC: 30502017 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1600	447976

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.32 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
46	48755	Feed bins to gathering belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48684 — Name: Feed bins to gathering belt — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158444 — SCC: 30502017 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	210	1600	447976

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0620 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
47	48756	Gathering belt to feed belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48685 — Name: Gathering belt to feed belt — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158445 — SCC: 30502017 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1600	447976

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0620 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency? ☐

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0030 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
48	48757	Railcar to Subsurface Bin

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48686 — Name: Railcar to Subsurface Bin — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158446 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
27	200	58690

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029 Pounds (Numerator Units) / Tons (Denominator Units)

Reference: AP-42 — Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: 0.0840 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
49	48758	Subsurface bin to Conveyors C-a thru C-c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48688 Name: Subsurface bin to Conveyors C-1 thru C-c Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 158447 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
27	200	58690

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference: AP-42

Trace (<0.001 tons)

Total Actual Emissions: 0.0840 Tons

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.000013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
50	48759	Conveyors C-a thru C-c to Conveyor C-d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48689 Name: Conveyors C-a thru C-c to Conveyor C-d Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13006800	5

Process Data

Process ID: 158448 SCC: 30502006 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
27	200	58690

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons)

Total Actual Emissions: 0.0840 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Reference: AP-42

Factor Includes Control Efficiency?

Capture efficiency (%): 100

Primary Control Device: Water Sprays

Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.00013		Pounds	**Numerator Units**			
Reference AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
51	48760	Conveyor C-d to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48690 — Name: Conveyor C-d to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158449 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
27	160	58690

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2134

Typical Operating Periods (when process is operational): Hours/Day 8 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0840 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference: AP-42

Capture efficiency (%): 100

Primary Control Device: Water Sprays — Primary Efficiency (%): 90

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.000013		Pounds	**Numerator Units**		
Reference	AP-42	Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Water Sprays	**Primary Efficiency (%)**	90	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
52	76304	Portable Crusher Plant Feeder

Notes	Unit Type	Status	Latitude	Longitude
Facility added a small portable crusher plant powered by a 250 hp Cat diesel engine in 2013 in order to increase capacity to meet market demand. Dust control is achieved by wetting the rock with water prior to crushing. Dust control efficiency is conservatively estimated at 30%.	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76302 Name: Truck Unloading to Feeder Type: Fugitive Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189501 SCC: 30502031 Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: *Chromium and Chromium compounds* CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.000016

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace: x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression

Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled

Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
53	76307	Portable Plant Feeder (PPF-1) to Crusher PPCR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76303 — Name: PPF-1 to PPCR-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189502 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0290 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace (<0.001 tons)	x
Calculation Method		**EmissionFactor**				**Total Actual Emissions**	
AP-42 Factors		0.000013		Pounds	**Numerator Units**	0	**Tons**
Reference		Factor Includes Control Efficiency?		Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
54	76308	Primary Crusher PPCR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 76304 — Name: Primary Crusher PPCR-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189503 — SCC: 30502001 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Tons	
Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0024

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: 0.0430 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 15

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0020 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0001		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
55	76309	Primary Crusher PPCR-1 to Conveyor PPC-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76305 — Name: PPCR-1 to PPC-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189504 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0029

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0120 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0170** **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.0011	Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
56	76310	Conveyor PPC-1 to Conveyor PPC-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76306 — Name: PPC-1 to PPC-2 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189505 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0120 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency? ☐

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0170** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
57	76311	Primary Screen PPSC-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 76307 — Name: Primary Screen PPSC-1 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189506 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	320	43498

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.025

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Trace (<0.001 tons) ☐

Total Actual Emissions: 0.2480 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.1320 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0087		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions** 0 **Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
58	76314	Screen PPSC-1 to Underbelly Belt PPC-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76309 — Name: PPSC-1 to PPC3 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189507 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
26	200	26099

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0070 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.01 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
59	76316	Conveyor PPC-3 to Conveyor PPC-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76311 — Name: PPC-3 to PPC-4 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189509 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	200	26099

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0070 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.01 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
60	76317	Conveyor PPC-4 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76312 — Name: Conveyor PPC-4 to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189510 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	200	26099

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0011

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0070 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.01 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0019		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
61	76318	Screen PPSC-1 to Conveyor PPC-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76313 — Name: PPSC-1 to PPC-10 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189511 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
4	30	4350

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0010 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0020 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
62	76319	Screen PPSC-1 to Conveyor PPC-5

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76314 — Name: PPSC-1 to PPC-5 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189512 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0010 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
63	76320	Conveyor PPC-5 to Conveyor PPC-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76315 — Name: PPC-5 to PPC-6 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189513 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0010 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.0010** **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
64	76321	Conveyor PPC-6 to Conveyor PP-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76316 — Name: PPC-6 to PPC-7 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189514 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0010 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency? ☐

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
65	76322	Conveyor PPC-7 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76317 — Name: PPC-7 to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189515 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	2175

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0010 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0010 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
66	76323	Conveyor PPC-10 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76318 — Name: PPC-10 to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189516 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
5	30	4350

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency?

Reference:

Trace (<0.001 tons)

Total Actual Emissions: 0.0010 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0020 **Tons**
Calculation Method		**EmissionFactor**					
Permit Factors		0.0011		Pounds	**Numerator Units**		
Reference		Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
67	76324	Screen PPSC-1 to Conveyor PPC-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76319 — Name: PPSC-1 to PPC-8 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189517 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
11	80	10875

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0030 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0040 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
68	76325	Conveyor PPC-8 to Conveyor PPC-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76320 — Name: PPC-8 to PPC-9 — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189518 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
11	80	10875

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0030 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Factor Includes Control Efficiency? ☐

Reference:

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0040 **Tons**
Calculation Method		**EmissionFactor**					
AP-42 Factors		0.0011		Pounds	**Numerator Units**		
Reference		Factor Includes Control Efficiency? ☐		Tons	**Denominator Units**		
Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
69	76326	Conveyor PPC-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76321 — Name: PPC-9 to Pile — Type: Fugitive — Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189519 — SCC: 30502006 — Is Process Data Confidential? N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
11	80	10875

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 — Days/Week 5 — Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 — Summer 0.25 — Fall 0.25 — Winter 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns)

CAS Number:

Trace (<0.001 tons): ☐

Total Actual Emissions: 0.0030 Tons

Calculation Method: AP-42 Factors

EmissionFactor: 0.0019

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency? ☐

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — Primary Efficiency (%): 30

Secondary Control Device: * Uncontrolled — Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant:	** PM-2.5 (All Particulate Matter <2.5 microns)*	**CAS Number:**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** 0.0040 **Tons**
Calculation Method	**EmissionFactor**						
AP-42 Factors	0.0011		Pounds	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**			

Capture efficiency (%)	**Primary Control Device**	Dust Suppression	**Primary Efficiency (%)**	30	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739

FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Sequence	Emission Unit ID	Emission Unit Name
70	76327	800 HP Cat Portable Plant Diesel Generator Engine

Notes	Unit Type	Status	Latitude	Longitude
	Reciprocating IC Engine	Operating	36.228190	-95.805790

Emission Release Point ID: 76322 Name: Diesel Generator Engine Exhaust Stack Type: Vertical Status: Operating

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	11	0.67	515	2350

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
0	0

Process Data

Process ID: 189520 SCC: 20200102 Is Process Data Confidential? N

Process Description: Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating

Process Material: Distillate Oil (Diesel)

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Gallons

Maximum Hourly	Typical Daily	Actual Annual
7	55	6965

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	115	MMBTU/1000 GAL	0	0

Actual Hours/Year: 995

Typical Operating Periods (when process is operational): Hours/Day 4 Days/Week 5 Weeks/Year 52

Seasonal Operating Fractions: Spring 0.25 Summer 0.25 Fall 0.25 Winter 0.25

Emissions from this Process

Pollutant: * Carbon Monoxide CAS Number: 630080

Calculation Method: Manuf. Test Data (w/ DEQ approval)

EmissionFactor: 8.5

Numerator Units: Grams

Denominator Units: Horsepower-hours

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: 7.45 Tons

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled Primary Efficiency (%): 0

Secondary Control Device: * Uncontrolled Secondary Efficiency (%): 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * Nitrogen Oxides - NOx | **CAS Number:**

Calculation Method	EmissionFactor	Numerator Units	Denominator Units	Trace (<0.001 tons)	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	6.9	Grams	Horsepower-hours		6.05 Tons

Reference: | Factor Includes Control Efficiency?:

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-10 (All Particulate Matter <10 microns) | **CAS Number:**

Calculation Method	EmissionFactor	Numerator Units	Denominator Units	Trace (<0.001 tons)	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	0.4	Grams	Horsepower-hours		0.35 Tons

Reference: | Factor Includes Control Efficiency?:

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * Sulfur Oxides - SOx | **CAS Number:**

Calculation Method	EmissionFactor	Numerator Units	Denominator Units	Trace (<0.001 tons)	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	0	Grams	Horsepower-hours		0 Tons

Reference: | Factor Includes Control Efficiency?:

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * Volatile Organics (non-HAP) | **CAS Number:**

Calculation Method	EmissionFactor	Numerator Units	Denominator Units	Trace (<0.001 tons)	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	1	Grams	Horsepower-hours		0.88 Tons

Reference: | Factor Includes Control Efficiency?:

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — COMPANY ID: 1739
FACILITY NAME: GREENHILL MATL — FACILITY ID: 3421

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT
* Carbon Monoxide	630080	7.45
* Nitrogen Oxides - NOx		6.05
* Sulfur Oxides - SOx		0

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Volatile Organics (non-HAP)		0.8820	N

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* PM-10 (All Particulate Matter <10 microns)		66.5250	N
* PM-2.5 (All Particulate Matter <2.5 microns)		1.4210	N
Chromium and Chromium compounds		0	Y

2013 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

"I certify:
(a) That I am the Responsible Official for SHERWOOD CONSTRCTN CO INC as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ Date: _____ Title: _____

Greenhill Concrete

February 5, 2015

Carol Paden
Oklahoma Department of Environmental Quality
Water Quality Division
PO Box 1677
Oklahoma City, OK 73101-1677

RE: Greenhill Concrete Mobile Batch Plant Site Closure
Cemco Model 220, SN: 11420502

Ms. Paden,

This letter is to certify that the temporary impoundment constructed for the above referenced facility located at Macy's Fulfillment Center, 7920 East 76th Street North, Owasso, OK was closed in accordance with the closure plan submitted under Section N of 616-G11MT. Excess materials (rock, sand and concrete) were removed and the site has been smoothed and left in a condition satisfactory to the owner.

If you have any questions or require more information, please contact me at your convenience.

Respectfully,
Phil Rush for
Matt Ritchie
Phil Rush, Operations Manager
Matt Ritchie, Vice-President of Materials

OK G11MT 87
66001860

RECEIVED
FEB 09 2015
WATER QUALITY DIVISION

PERMITTING GROUP

F1C2

PERMIT APPLICATION ROUTING SLIP

Routing Sequence:

Task		Routed to		
		Name	Date	By
Application received (date-stamped) and copied		[redacted]	2/24/15	DL
Application routed to permitting manager for initial review	Previous Permit Writer			
Routed to permit engineering staff		Brandon	2/24/15	DL
Check Information	Check number or CC for Credit Card	Amount	Date Rcv'd	Rcv'd By

Facility Name: Greenhill Concrete Products SN# 11420502 **County:** Rogers

Permit Type		Application Form(s) Required
(check 1 box)	☐ Municipal Major (OK00)	2M1
	☐ Municipal Minor (OK00)	2M2
	☐ Municipal Discharging Lagoon (OKG58)	2MG58
	☐ Municipal Filter Backwash (OKG38)	2MW
	☐ Industrial Major (OK00)	1, 2C, or 2D (2SI/2L as needed)
	☐ Industrial Minor (OK00)	1, 2C, or 2D (2SI/2L as needed)
	☐ Industrial Surface Impoundment (WD, CW, or W)	1 and 2SI (2L as needed)
	☐ Class III Surface Impoundment GP (OKGC3T)	GC3T
	☐ Surface Coal Mine GP (OKG04)	G04
	☐ Concrete Batch Plant GP – Discharge (OKG11)	G11
	☐ Concrete Batch Plant GP – Total Retention (OKG11T)	G11
	☐ Mobile Concrete Batch Plant GP – Total Retention (OKG11MT)	G11MT
	☒ Mobile Concrete Batch Plant GP – Relocation (OKG11MT)	G11MTR
	☐ Hydrostatic Test Project GP (OKG27)	G27
	☐ Vehicle Wash GP – Discharge (OKG75)	G75
	☐ Vehicle Wash GP – Total Retention (OKG75T)	G75
	☐ UST Remediation GP (OKG83)	G83
	☐ Rock, Sand, & Gravel Quarry GP – Discharge (OKG95)	G95
	☐ Rock, Sand, & Gravel Quarry GP – Total Retention (OKG95T)	G95
	☐ Industrial User/Pretreatment (OKP003)	Form 1 and 606-008

Permitting Group Use Only

(check 1 box) ☐ **New Pmt** ☐ **Renewal** ☐ **Modification** ☐ **Resubmission** ☐ **Pmt Conversion**

☒ **Relocation**

Facility ID No. 66001860

Permit No. OKG11MT87

Old Permit No. (for conversions only) _____

Comments:

Greenhill Concrete

2.16.15

Carol Paden
Water Quality Division
Oklahoma Department of Environmental Quality
PO Box 1677
Oklahoma City, OK 73101-1677

RE: Facility ID No. I-66001860
Cemco Model #220 Portable Batch Plant

Carol,

Attached is DEQ Form 616-G11 MTR with supporting documentation, providing notification that we will be relocating the portable concrete plant referenced above. The plant will be erected at 1500 28th Avenue SW, Norman, OK 73072 between February 19 and February 28, 2015 on ODOT right-of-way to provide concrete for the ODOT project at I-35 and Highway 9 and Lindsey Ave interchanges. We estimate this project to be complete in approximately March of 2017.

Please do not hesitate to contact me should you require any additional information of have any questions.

Respectfully,

Matt Ritchie/PE

Matt Ritchie
VP Materials
Sherwood Construction
PO Box 10
Catoosa, OK 74015
918-266-6861
Matt.ritchie@sherwood.net

RECEIVED
FEB 23 2015
WATER QUALITY DIVISION

FORM 616-11MTR	OKLAHOMA DEQ	RELOCATION FOR MOBILE CONCRETE BATCH PLANTS THAT HAVE AUTHORIZATION UNDER GENERAL PERMIT NO. OKG11MT

A. EQUIPMENT IDENTIFICATION (Applies to all applicants)

1. Permit Number	OKG11MT87	2. Equipment Serial Number	Cemco Model #220 SN - 11420502

B. FACILITY CONTACT (Applies to all applicants)

1. NAME & TITLE	2. PHONE (area code & number)
Matt Ritchie, Vice President - Materials	918-266-6861

C. FACILITY MAILING ADDRESS (Applies to all applicants)

1. STREET OR P.O. BOX	2. TELEFAX (area code & number)	
1640 S. 101st E. Ave	918-266-6482	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Tulsa	OK	74128

D. TEMPORARY JOB SITE LOCATION (applies to all applicants)

1. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER	2. COUNTY	
1500 28th Avenue SW	Cleveland	
3. CITY OR TOWN	**4. STATE**	**5. ZIP CODE**
Norman	OK	73072

6. LEGAL DESCRIPTION (¼, ¼, ¼, Section, Township, Range)

E. SIC CODES (4-digit, in order of priority) (Applies only if the facility has activities in addition to concrete batching)

1. FIRST		2. SECOND	
(number) 3273	(specify) Mobile Concrete Batch Plant	(number)	(specify)

F. STORMWATER PERMITTING (Applies to all applicants)

Does the temporary job site facility have a stormwater multi-sector general permit?	YES		NO	x	PERMIT NO.	

G. SOURCES OF WATER SUPPLY AND AMOUNT USED (Applies to all applicants)

Identify all sources of facility water by entering the appropriate letter(s) in the boxes below and then providing the appropriate description(s), as indicated in parentheses. List each source on a separate line. If you have more than one source of a given type, indicate this by entering the letter, followed by two digits (e.g., if your water comes from three wells, the sources would be indicated as G01, G02 and G03). For each source, estimate of the average daily use. Continue on additional sheets if needed.

G = GROUNDWATER WELL
S = SURFACE WATER
P = PUBLIC WATER SUPPLY
W = WASTEWATER TREATMENT PLANT
O = OTHER

(legal description of well location)
(name of stream, river, lake, etc., and legal description of intake)
(name of entity from which water is obtained)
(name of entity from which water is obtained)
(source of supply, and legal description if applicable)

1. SOURCE	2. DESCRIPTION	3. AVG. DAILY USE (GPD)
P	City of Norman Municipal Supply	4000 GPD

FOR OFFICIAL USE ONLY

AUTHORIZATION NO.	FACILITY ID NO.	
OKG11MT____	I- ENGINEER: _____	Date Stamp

H. INVENTORY OF CHEMICALS AND RAW MATERIALS (Applies to all applicants)

1. List all chemical compounds and raw materials in containers of 55 gallons or more, used in plant operations and stored outside a building (e.g., solvents, cleaning compounds, water treatment chemicals). Describe the storage location and the purpose for which each chemical is used. Continue on additional sheets if needed.

Air Entraining Admixture - 1000 Gallon poly tank in trailer
Water Reducing Admixture - 1000 Gallon poly tank in trailer

2. Attach Material Safety Data Sheets (MSDS) for any additives, detergents, spray oils or treatment chemicals used that you have not previously submitted.

I. DEQ LANDOWNER NOTIFICATION AFFIDAVIT (Applies to all applicants)

1. Does applicant own all land subject to the application:	Yes		No	x

If yes, proceed to section J. If no, proceed to part 2 of this section.

2. Application(s) for which the applicant does not own all the land subject to the application must certify by affidavit that they (1) have a current lease or easement which is given to accomplish the permitted purpose or (2) have provided legal notice to the landowner. The basis for this requirement is Title 27A of the Oklahoma Statutes, § 2-14-103(9), as described in OAC 252:004-7-13(c). DEQ Form 100-810 may be used for this purpose and is available on the DEQ web page.

J. CERTIFICATION (Applies to all applicants)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and true belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. NAME & OFFICIAL TITLE (type or print)	2. SIGNATURE	3. DATE SIGNED
Matt Ritchie, Vice President - Materials	Matt Ritchie, PE	02/19/2015

Cemco

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AUTHORIZATION FOR DISCHARGE AND/OR DISPOSAL
UNDER GENERAL PERMIT NO. OKG11MT

AUTHORIZATION NO.: OKG11MT87
FACILITY ID NO.: I-66001860

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. §2-6-201 *et seq.*, Oklahoma Uniform Environmental Permitting Act, 27A O.S. §2-14-101 *et seq.*, and the rules of the Oklahoma Department of Environmental Quality (DEQ) promulgated thereunder,

Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

is hereby authorized to operate a mobile concrete batch plant identified as a Cemco Model 220 Batch Plant Serial No. 11420502 and to treat and dispose of industrial wastewater in temporary total retention surface impoundment(s) and to land apply wastewater for dust suppression only.

The wastewater consists of process wastewater and contaminated stormwater runoff associated with the following three common activities: (1) mix plant area washdown (if dry brush cleanup methods are not utilized); (2) truck mixer drum washout; and (3) external truck wash and oil spray down, and is classified as Class III wastewater in accordance with OAC 252:616-1-2.

Discharge of wastewater contained in the authorized surface impoundment(s) to the waters of the state is specifically prohibited. Stormwater discharges not associated with concrete mix plant area washdown, truck mixer drum washout, and external truck wash and oil spray-down will be authorized under the OPDES Stormwater Multi-Sector General Permit.

The facility shall be maintained in accordance with all conditions and provisions set forth in the General Permit No. OKG11MT, and in Parts I, II, and III, hereof.

Issuance of this Authorization in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and the DEQ Rules.

This Authorization is non-transferable and is granted summarily by and at the discretion of the Executive Director in accordance with applicable DEQ Rules and provisions of the above-referenced Permit.

This is a new Authorization.

This Authorization shall become effective on May 5, 2014.

SN: 11420502

This Authorization shall expire at midnight, on June 7, 2017.

Issued this 5th day of May, 2014.

Carol Paden

Carol Paden, P.E. Manager
Industrial Permits Section
Water Quality Division

Google earth feet 2000
meters 600

SUPPORT FACILITIES AREA
WATER FLOW DIRECTION
SILT FENCE PERIMETER
CONSTRUCTION ENTERANCE
BUFFER ZONE AREA
WASH OUT PIT
EQUIPMENT + MATERIAL STORAGE
CONCRETE BATCH PLANT
TOPSOIL STOCK PILE

BASF
The Chemical Company

Safety Data Sheet
MasterAir AE 90 also MB AE 90

1. Product and Company Identification

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

2. Hazards Identification

Emergency overview

CAUTION:
NO PARTICULAR HAZARDS KNOWN.
Keep container tightly closed.
Avoid ingestion.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.

State of matter: liquid
Colour: dark brown
Odour: odourless

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:
May cause slight irritation to the eyes. May cause slight irritation to the skin. May cause slight irritation to the respiratory tract. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Potential environmental effects

Aquatic toxicity:
At the present state of knowledge, no negative ecological effects are expected. There is a high probability that the product is not acutely harmful to aquatic organisms. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulation / bioconcentration:
Discharge into the environment must be avoided.

3. Composition / Information on Ingredients

This product is not regarded as hazardous under current OSHA Hazard Communication standard; CFR 29 Part 1910.1200.

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point:	not applicable
Autoignition:	not applicable
Lower explosion limit:	not applicable

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Handling

General advice:
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:
No special precautions necessary.

Storage

General advice:
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing. Protect from direct sunlight.

Temperature tolerance
Protect from temperatures below: 0 °C
The packed product must be protected from temperatures below the indicated one.
Protect from temperatures below: 32 °F
The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

rosin

ACGIH	; Included in the regulation, but with no data values - See the regulation for further details ; Exposure by all routes should be carefully controlled to levels as low as possible.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Safety glasses with side-shields.

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form:	liquid	
Odour:	odourless	
Colour:	dark brown	
pH value:	10.3 - 11.5	(25 °C)
Boiling point:	100 °C	
Vapour pressure:		No data available.
Density:	1.012 - 1.020 g/cm3	(20 °C)
Relative density:	1.012 - 1.020	
Bulk density:		not applicable
Vapour density:		Heavier than air.
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Viscosity, dynamic:		No data available.
Solubility in water:		soluble
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Conditions to avoid:
See MSDS section 7 - Handling and storage.

Substances to avoid:
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
The product is stable if stored and handled as prescribed/indicated.

Decomposition products:
carbon oxides, nitrogen oxides

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

11. Toxicological information

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Degradability / Persistence
Biological / Abiological Degradation

Evaluation: Inherently biodegradable.
The insoluble fraction can be removed by mechanical means in suitable waste water treatment plants.

Other adverse effects:

Ecological data are not available. Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Waste disposal of substance:
Do not discharge into drains/surface waters/groundwater. Dispose of in a licensed facility.

Container disposal:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

OSHA hazard category: Chronic target organ effects reported;

EPCRA 311/312 (Hazard categories): Acute;

CERCLA RQ	CAS Number	Chemical name
1000 LBS	1310-58-3; 1310-73-2	Potassium hydroxide; Sodium Hydroxide
100 LBS	7664-41-7	ammonia

State regulations

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other Information

NFPA Hazard codes:
Health : 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating
Health: 1 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com

MSDS Prepared on: 2012/07/30

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END OF DATA SHEET

BASF
The Chemical Company

3 | 03 30 00, 03 40 00, 03 70 00 | Product Data: Cast-in-Place Concrete, Precast Concrete, Mass Concrete

POLYHEED® 997

Mid-Range Water-Reducing Admixture

Description

PolyHeed 997 admixture is a patented multi-component, non-chloride, mid-range water-reducing admixture. PolyHeed 997 admixture meets ASTM C 494/C 494M requirements for Type A, water-reducing, and Type F, high-range water-reducing, admixtures.

Applications

Recommended for use in:

- Conventionally placed concrete mixes containing a wide range of cements, slag cement, Class C and F fly ashes, silica fume and aggregates
- Reinforced, precast, prestressed, lightweight or normal weight concrete and pumped concrete
- Residential/commercial flatwork and formed surfaces
- Rheodynamic® Self-Consolidating Concrete
- 4x4™ Concrete
- Pervious Concrete

Features

- True mid-range water reduction (5-15%) and excellent performance across a wide concrete slump range, especially the difficult slump range of 5-8 in. (125-200 mm)
- Superior workability, pumpability and finishability qualities even in concrete mixes containing low amounts of cementitious materials
- Compressive and flexural strength performance increased at all ages
- Strength performance comparable to chloride-bearing, water-reducing admixtures at all ages
- Superior finishing characteristics for residential/commercial flatwork and formed surfaces

Benefits

- Significantly reduced placement and finishing time resulting in lower in-place concrete costs
- Improved concrete durability to damage from freezing and thawing
- Increased service life of concrete structures

Performance Characteristics

Mixture Data: 500 lb/yd^3 (295 kg/m^3) of Type I cement; slump, 6-7 in. (150-180 mm); 5-6% air; concrete temperature 70 °F (21 °C); ambient temperature, 70 °F (21 ° C).

Setting Time Performance[1]

Mixture	Initial Set h:min	Difference h:min
Plain	6:01	–
PolyHeed 997 admixture @		
5 fl oz/cwt (325 mL/100 kg)	6:22	+0:21
10 fl oz/cwt (650 mL/100 kg)	6:57	+0:56
15 fl oz/cwt (980 mL/100 kg)	7:31	+1:30

Compressive Strength Performance

Mixture	7-Day psi	7-Day MPa	7-Day %	28-Day psi	28-Day MPa	28-Day %
Plain	2360	16.3	100	3320	22.9	100
PolyHeed 997 admixture @						
5 fl oz/cwt (325 mL/100 kg)	3060	21.1	129	3930	27.1	118
10 fl oz/cwt (650 mL/100 kg)	3740	25.8	158	4610	31.8	136
15 fl oz/cwt (980 mL/100 kg)	4620	31.9	196	5460	37.7	165

[1]*Note: The data shown are based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result of differences in concrete making materials and jobsite conditions.*

Master Builders

Product Data: POLYHEED® 997

Guidelines for Use

Dosage: PolyHeed 997 admixture has a recommended dosage range of 3-15 fl oz /cwt (195-980 mL/100 kg) of cementitious material for most concrete mixes.

As the dosage of PolyHeed 997 admixture increases to 15 fl oz/cwt (980 mL/100 kg) of cementitious materials, normal concrete setting characteristics are maintained and early and ultimate compressive strengths increase.

BASF Construction Chemicals does not recommend the use of dosages outside the recommended range without trial testing. Consult your local BASF Construction Chemicals sales representative for assistance in determining the dosage for optimum performance.

Product Notes

Corrosivity – Non-Chloride, Non-Corrosive: PolyHeed 997 admixture will neither initiate nor promote corrosion of reinforcing or prestressing steel embedded in concrete, or of galvanized steel floor and roof systems. PolyHeed 997 admixture does not contain intentionally added calcium chloride or other chloride-based ingredients.

Compatibility: PolyHeed 997 admixture may be used in combination with any BASF Construction Chemicals admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the concrete mixture.

Storage and Handling

Storage Temperature: If PolyHeed 997 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. ***Do not use pressurized air for agitation.***

Shelf Life: PolyHeed 997 admixture has a minimum shelf life of 18 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of PolyHeed 997 admixture has been exceeded.

Packaging

PolyHeed 997 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Material Safety Data Sheets: PolyHeed 997 admixture.

Additional Information

For additional information on PolyHeed 997 admixture or its use in developing concrete mixtures with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF's Construction Chemicals division is a leading provider of innovative admixtures for specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets throughout the North American region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

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BASF Corporation
Admixture Systems
www.masterbuilders.com
United States 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5544 • Tel: 800 628-9990 • Fax: 216 839-8821
Canada 1800 Clark Boulevard, Brampton, Ontario L6T 4M7 • Tel: 800 387-5862 • Fax: 905 792-0651

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Master Builders

BASF

The Chemical Company

Safety Data Sheet

MasterGlenium 7500 also GLENIUM 7500

1. Product and Company Identification

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Chemical family: Solution based on: polycarboxylate ether, in water

2. Hazards Identification

Emergency overview

WARNING:
Irritating to eyes and skin.
Keep container tightly closed.
Avoid ingestion.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.

State of matter: liquid
Colour: brown
Odour: slight odour

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation / corrosion:
Irritating to eyes and skin.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect.

Potential environmental effects

Aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.

Degradation / environmental fate:
Not readily biodegradable (by OECD criteria).

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
64-19-7	1.0 - 5.0 %	Acetic acid

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point: 93.34 °C

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Hazards during fire-fighting:
carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:
For small amounts: Pick up with inert absorbent material (e.g. clay or diatomaceous earth). Place absorbed material in the same container as the spilled substance/product for disposal.

7. Handling and Storage

Handling

General advice:
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:
No special precautions necessary.

Storage

General advice:
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing. Protect from direct sunlight.

Temperature tolerance
Protect from temperatures below: 5 °C
The packed product must be protected from temperatures below the indicated one.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits

Acetic acid	OSHA	PEL 10 ppm 25 mg/m3 ;
	ACGIH	TWA value 10 ppm ; STEL value 15 ppm ;

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) respirator as necessary.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Safety glasses with side-shields.

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift

the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form:	liquid	
Odour:	slight odour	
Colour:	brown	
pH value:	approx. 4.6	(22 °C)
Density:	1.05 g/cm3	(20 °C)
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		The product has not been tested.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Conditions to avoid:
See MSDS section 7 - Handling and storage.

Substances to avoid:
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
The product is stable if stored and handled as prescribed/indicated.

Decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:
Based on its structural properties the product is not classified as oxidizing.

11. Toxicological information

Acute toxicity

Information on: Acetic acid
Assessment of acute toxicity:
The toxicity of the product is based on its corrosivity.
Of low toxicity after single ingestion. Of moderate toxicity after short-term skin contact. Of moderate toxicity after short-term inhalation.

Irritation / corrosion

Information on: Acetic acid
Assessment of irritating effects:
Highly corrosive! Damages skin and eyes.

Genetic toxicity

Experimental/calculated data:

Ames-test Mutagenicity tests revealed no genotoxic potential.

Other Information:

On the basis of the product's composition, no acute general toxic effects are to be expected. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12. Ecological Information

Bioaccumulation

No data available concerning bioaccumulation.

Other adverse effects:

There is a high probability that the product is not acutely harmful to aquatic organisms. Do not discharge product into the environment without control. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

13. Disposal considerations

Waste disposal of substance:
Do not discharge into drains/surface waters/groundwater. Dispose of in a licensed facility.

Container disposal:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical	TSCA, US	released / listed

OSHA hazard category: Chronic target organ effects reported; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute; Chronic

CERCLA RQ	CAS Number	Chemical name
5000 LBS	64-19-7	Acetic acid
100 LBS	123-91-1	1,4-dioxane
10 LBS	75-21-8	Ethylene Oxide

State regulations

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other Information

HMIS III rating
Health: 1 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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SDS Prepared by:
BASF NA Product Regulations
msds@basf.com

SDS Prepared on: 2013/04/03

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END OF DATA SHEET

BASF

The Chemical Company

Safety Data Sheet

MasterSet AC 534 also POZZOLITH NC 534

1. Identification

Product identifier used on the label

MasterSet AC 534 also POZZOLITH NC 534

Recommended use of the chemical and restriction on use

Recommended use*: for industrial and professional users

* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: No data available.

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	1	Serious eye damage/eye irritation

Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:

H318	Causes serious eye damage.
H302	Harmful if swallowed.

Precautionary Statements (Prevention):

P280	Wear eye/face protection.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P330	IF SWALLOWED: rinse mouth.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

CAUTION:
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
Ingestion may cause irritation to mucous membranes.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Keep container tightly closed.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Content (W/W)	Chemical name
10124-37-5	>= 25.0 - < 75.0 %	calcium nitrate
540-72-7	>= 5.0 - < 15.0 %	sodium thiocyanate

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

CAS Number	Content (W/W)	Chemical name
10124-37-5	>= 25.0 - < 75.0 %	calcium nitrate
540-72-7	>= 5.0 - < 15.0 %	sodium thiocyanate

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

If on skin:
Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

Advice for fire-fighters

Protective equipment for fire-fighting:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Precautions for safe handling
Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Conditions for safe storage, including any incompatibilities
No applicable information available.

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.
Protect from temperatures below: -25 °C
Protect from temperatures below: -13 °F

8. Exposure Controls/Personal Protection

Advice on system design:
No applicable information available.

Personal protective equipment

Respiratory protection:
No applicable information available.

Hand protection:
Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields.

Body protection:
Impermeable protective clothing

General safety and hygiene measures:
Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form:	liquid	
Odour:	odourless	
Odour threshold:		No applicable information available.
Colour:	dark brown	
pH value:	approx. 6.5	
Melting temperature:	approx. 0 °C	Information applies to the solvent.
boiling temperature:	approx. 100 °C	
Sublimation point:		No applicable information available.
Flash point:		Non-flammable.
Flammability:	not flammable	
Upper explosion limit:		No applicable information available.
Vapour pressure:		No applicable information available.
Density:	approx. 1.399 g/cm3	(20 °C)
Relative density:		No applicable information available.
Vapour density:		Heavier than air.
Thermal decomposition:	No applicable information available.	
Viscosity, dynamic:		No applicable information available.
Viscosity, kinematic:		No applicable information available.
Solubility in water:		(20 °C) soluble
Miscibility with water:		(20 °C) miscible in all proportions
Solubility (quantitative):		No applicable information available.
Solubility (qualitative):	No applicable information available.	
Evaporation rate:		No applicable information available.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:
Corrosive effects to metal are not anticipated.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid
See MSDS section 7 - Handling and storage.

Incompatible materials
No applicable information available.

Hazardous decomposition products

Decomposition products:
No applicable information available.

Thermal decomposition:
No applicable information available.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Of moderate toxicity after single ingestion.

Oral
Type of value: ATE
Value: 1,323 mg/kg

Inhalation
No applicable information available.

Dermal
No applicable information available.

Assessment other acute effects
No applicable information available.

Irritation / corrosion
Assessment of irritating effects: May cause severe damage to the eyes.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: No applicable information available.

Genetic toxicity
Assessment of mutagenicity: No applicable information available.

Reproductive toxicity
Assessment of reproduction toxicity: No applicable information available.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

12. Ecological Information

No applicable information available.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. Residues should be disposed of in the same manner as the substance/product. Do not discharge into drains/surface waters/groundwater.

Container disposal:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

Land transport
USDOT

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute;

CERCLA RQ	CAS Number	Chemical name
100 LBS	111-42-2	2,2'-iminodiethanol

State regulations

State RTK	CAS Number	Chemical name
NJ	10124-37-5	calcium nitrate

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:
Health : 2 Fire: 0 Reactivity: 0 Special:

HMIS III rating
Health: 2 Flammability: 0 Physical hazard: 0

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2014/07/30

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.
END OF DATA SHEET

616-G11MT Supplemental Information - Section N
CLOSURE PLAN - Mobile Concrete Batch Plant
*** REVISED 2.16.15 ***
Cemco Model #220 Portable Batch Plant
For Use on ODOT Project

BACKGROUND:

The activity associated with this project includes the reconstruction of the I-35 and State Highway 9 and Lindsey Avenue interchanges in Norman, OK. Sherwood Construction plans to move this portable batch plant to ODOT right of way located at 1500 28th Avenue SW, Norman, OK 73072 to provide concrete for the duration of the project, which is expected to be completed in March of 2017.

ROUTINE TREATMENT AND REMOVAL:

The batch plant site has been surfaced with crushed stone and millings. The crushed stone provides a stable platform on which to travel and minimize the tracking of soil material off site. It also virtually eliminates the potential for erosion of onsite runoff. Silt fences will be installed along the perimeter of the surfaced area as an added precaution to capture any sediment resulting from site runoff. For control of wastewater generated from mixing plant and truck clean-out, a temporary impoundment will be constructed in accordance with permit guidelines. The solid materials (sand, rock, cement) collected in the impoundment area are "nonpollute" in nature and will not require special treatment. They will be disposed in a landfill suited for that type of material or may be spread over the surfaced area to provide additional aggregate thickness and/or stability. Accumulated water in the impoundment area will be pumped into a water truck and used to water the onsite plant area to help alleviate the fugitive dust control problem, but only after being checked for pollutants (oil/ grease sheen or globules) by one of the onsite response members before it is pumped from the impoundment. The inspection log shall record this inspection and the estimated quantity of water removed from the impoundment. Any abnormal conditions noticed in the impoundment will require that treatment or corrective action be taken immediately. Treatment for chemicals or oils on the water's surface will be accomplished by either pumping off the surface sheen or by use of an absorption buoy system. In either case it would be per EPA approved methods and disposed per EPA requirements.

MONITORING:

The storm water runoff control devices and impoundment criteria will be monitored and modified as conditions require. All concrete additives stored in the onsite trailer will be monitored to insure proper storage and handling. The impoundment area will also be visually monitored to insure no chemicals or oils have contaminated the standing water. Periodic monitoring of the impoundment area will be recorded on a log sheet and kept at the plant site at all times. Monitoring will be done weekly and recorded in an inspection log, with the exception that after a heavy rain (minimum of .5"), an inspection shall be made and recorded. This inspection report will be made available to the DEQ upon request.

CLOSURE:

Upon completion of batch plant operations, the site will be restored to a condition equivalent to that prior to occupation. Restoration will include removal of wastewater and sediment/sludge from the impoundment area and eradication of the impoundment.

Wastewater-similar to monitoring, active treatment and removal as stated above, the wastewater will be visually inspected for non-concrete related pollutants prior to its removal from the impoundment. Any wastewater remaining after natural evaporation and prior to closure will be pumped out and used for dust suppression at the site.

Sludge - Depending on the solidity of the sediment/sludge remaining in the impoundment upon removal of the waste water, the material will be removed and either taken to a landfill, a recycling location, or left on site in a manner acceptable to the Oklahoma D.O.T. -if the latter is an allowable option.

Backfill- Once all the water, solid materials and the liner have been removed from the impoundment area, the area will be filled. If dikes were used to construct the Impoundment, they will be removed or leveled to restore the area to its prior drainage patterns. If an excavation was used, the pit will be filled with the materials originally removed. If there were significant strata differences within the excavation's limits, the excavated material will be replaced in an order to restore the continuity of the layers. The replaced material will be co-mingled with the in-situ material and will be compacted to a similar density. Once the grading is finished in this area, the area will be revegetated or resurfaced to its original condition.

DISPOSAL:

It is not anticipated that a disposal site will be required for this site, with the exception of any sediment left in the impoundment, since all the materials used in the process of making ready mix concrete are non-hazardous materials. If for some reason a disposal site is required, we will notify the DEQ immediately of this change and will revise this plan to reflect this change.

CERTIFICATE OF CLOSURE:

An affidavit of closure will be submitted within 10 days after closure of all temporary impoundments.

FACT SHEET

FOR THE GENERAL WASTEWATER DISPOSAL PERMIT FOR MOBILE CONCRETE BATCH PLANTS TO OPERATE AT TEMPORARY JOB SITES AND TO CONSTRUCT TEMPORARY TOTAL RETENTION INDUSTRIAL WASTEWATER SURFACE IMPOUNDMENTS; AND/OR TO LAND APPLY INDUSTRIAL WASTEWATER FOR PURPOSES OF DUST SUPPRESSION.

DEQ Permit No.:	OKG11MT
Applicant:	Operators of Mobile Concrete Batch Plants in Oklahoma
Prepared and Issued By:	Industrial Permits Section Water Quality Division Department of Environmental Quality P. O. Box 1677 707 N. Robinson Ave. Oklahoma City, OK 73101-1677
Permit Action:	Renewal of a general permit to operate a mobile concrete batch plant and to construct temporary total retention surface impoundments and/or land application of wastewater

I. SCOPE OF PERMIT

The activities regulated by this General Permit Number OKG11MT (Permit) are the following activities at mobile concrete batch plants (SIC Code No. 3273): (1) operate the plant at temporary job sites, (2) construct and operate temporary industrial wastewater total retention surface impoundments; and/or (3) land application of industrial wastewater for dust suppression. This Permit will regulate any combination of the above-listed wastewater disposal/treatment options. Because of the short time that a mobile concrete batch plant will be located at a temporary job site, the DEQ has determined that the use of total retention surface impoundments is appropriate. If an Owner/Operator wishes to discharge industrial wastewater at a temporary job site it will be necessary to obtain an individual discharge permit.

Existing mobile concrete batch plants that are not currently permitted by the DEQ through individual wastewater disposal permits shall apply for coverage under this Permit within 90 days of the effective date of this Permit. New mobile concrete batch plants shall obtain a Permit prior to commencing any of the activities regulated by this Permit.

- Wastewater regulated by this Permit includes process wastewater and stormwater runoff associated with the following three common activities: (1) mix plant operation and clean-up (if dry brush cleanup methods are not utilized), (2) truck mixer drum washout and (3) external truck wash and oil spray down. Stormwater discharges that are not associated with these activities and are not commingled with the stormwater associated with these activities are not covered by this permit.

- Surface impoundments regulated by this Permit are any temporary total retention surface impoundments constructed at any mobile concrete batch plant temporary job site that contains wastewater associated with the activities described above.

- Land application of wastewater regulated by this Permit is the land application of wastewater associated with the activities described above. Land application shall be for dust suppression only, as described herein.

This permit does not specify the disposal/treatment method(s) that the permittee must use. If temporary total retention surface impoundments and/or land application are used for wastewater treatment and/or disposal, the surface impoundments and/or land application shall be regulated by this Permit in accordance with DEQ Rules OAC 252:616. This permit shall have a five (5) year term. All Authorizations issued under the General Permit shall expire on the expiration date of the General Permit.

II. APPLICANT ACTIVITY

The following three common activities are the sources of wastewater at mobile concrete batch plants: (1) mix plant operations and clean-up, (2) truck mixer drum washout and (3) external truck wash and oil spray down.

The function of the mix plant is to combine gravel, crushed stone and sand (together known as aggregate), cement, water and admixtures to form fresh concrete. Typically, aggregate is received in bulk quantities by rail or truck. It is stored outside until it is conveyed to distribution bins for feeding into the mix plant.

There are two types of plants, central mix plants and transit mix plants. The central mix plant combines and mixes all ingredients, then loads the fresh concrete in the mixer drum on the truck or into a haul truck. The transit mix plant combines the dry ingredients and then loads the dry ingredients and water into the mixer drum on the truck where the final mixing occurs. A mobile concrete batch plant can perform both types of operations. Wastewater is generated from wash water and associated stormwater runoff from the mix plant (if dry brush cleanup methods are not utilized), truck mixer drum washout and/or ready-mix truck exteriors.

The function of the mixer drum washout activity is to rinse residual concrete from the inside of the truck's mixer drum or haul truck to prevent it from setting up in the drum. Wastewater is generated from the mixer drum washout activity and associated stormwater.

The function of the external truck wash is to clean external surfaces of the ready-mix trucks. Wastewater is generated from the washing activity and associated stormwater.

Mobile concrete batch plants shall utilize one or more of the following options to manage wastewater generated at temporary job sites; offsite wash facilities, temporary total retention surface impoundments, approved recycling methods, land application for dust suppression, and/or stockpile watering.

III. WASTEWATER CHARACTERISTICS

Wastewater characteristics for mobile concrete batch plants are based upon the potential pollutants generated from mix plant washdown, mixer drum washout and external truck washing.

All mobile concrete batch plants handle and store nonmetallic minerals. The minerals are often stored outdoors until they are utilized in the industrial processes. Handling, storage and use of these minerals in the industrial processes results in the potential for their presence in process wastewaters and associated stormwater, resulting in potential for high Total Suspended Solids (TSS) levels if the wastewater is left untreated. In addition, since many of the minerals processed are calcareous, such as limestone, the presence of these minerals can elevate the pH of the wastewater. Wastewater from mix plant washdown and associated stormwater has the potential to contain suspended solids from spilled cement and sand solids, and fugitive dust resulting from mix plant operation. The washdown water prevents the concrete from setting up and fouling the process area and drains, thus producing a wastewater high in suspended solids. Due to contact with these materials, the wastewater may also display elevated pH levels. Oil and grease is also a potential pollutant of concern due to the operation in the mix plant area of mix plant equipment and trucks that require oil in their operation and maintenance.

Wastewater from mixer drum washout and associated stormwater has the potential to contain suspended solids, since the washout water comes from thinning the concrete left in the drums at the end of the work day to prevent it from setting up in the mixer drum. Thinning this mixture results in a wastewater high in cement and sand solids that are not bound together. Due to contact with these materials, the wastewater may also display elevated pH levels. Oil and grease is also a potential pollutant of concern due to the presence of residual oil on the trucks and associated mechanisms of the truck. Wastewater from external truck washing and associated stormwater has the potential to contain suspended solids and elevated pH levels from concrete dust and road grime. Oil and grease is also a potential pollutant of concern due to the presence of residual oil on the trucks.

Based on the description of the processes at mobile concrete batch plants, the pollutants of concern are TSS, small amounts of Oil and Grease, and pH. Therefore, in accordance with OAC 252:616-1-2, the wastewater generated from mobile concrete batch plants is considered class III wastewater. Wastewater includes water generated from the above mentioned activities and any stormwater that comes into contact with these activities. Once the stormwater comes into contact with wastewater, it will be considered and treated as wastewater. Also, any stormwater that falls into the temporary surface impoundments will be considered and treated as wastewater.

IV. SURFACE IMPOUNDMENTS

The use of temporary surface impoundments for treatment and/or disposal of wastewater at mobile concrete batch plants is authorized, subject to additional State requirements as specified below and in General Permit No. OKG11MT, in accordance with OAC 252:616.

A. Engineer Required

In accordance with OAC 252:616-1-3, "Pursuant to 59 O.S., § 475.2 and a ruling by the Oklahoma State Board of Registration for Professional Engineers and Land Surveyors, the design and closure activities required by this chapter constitute the practice of engineering and thus, require the seal and signature of an engineer registered to practice in the State of Oklahoma." It is the Best Professional Judgement (BPJ) of the permit writer that the requirements of the general permit do not constitue the practice of engineering based on temporary status, class III wastewater, liner requirements, recycle/reuse of wastewater, use of wastewater for on-site dust suppression, and the closure plan requirements stated in the general permit.

B. Wastewater Classification

The wastewater generated from routine operations of mobile concrete batch plants is classified as Class III wastewater in accordance with OAC 252:616-1-2.

C. Construction Requirements

Impoundments shall be constructed and maintained in accordance with OAC 252:616-7-1. Since the impoundment(s) to be constructed are temporary, the DEQ has concluded that this rule can be interpreted to allow dikes to be constructed with 1:2 (1 vertical to 2 horizontal) slopes for job sites where the impoundment will be used for less than 180 days. For those sites that the impoundments will be used for greater than 180 days, a 1:3 slope must be used.

Because the dyke height will be low the DEQ has also concluded that it is not necessary to construct dikes with flat tops in order to inspect the dykes for erosion.

D. Liner Requirements

An excavated soil liner may be used for temporary total retention surface impoundments. Liner materials and construction shall be in compliance with requirements of OAC 252:616-7-1(8) and (9) and OAC 252:616-7-2 and 7-3.

E. Other Specific Requirements

Wastewater contained in total retention surface impoundments may be recycled for use in concrete make-up or wash water.

F. Freeboard Requirements (OAC 252:616-7-1(7)

Since the impoundment(s) to be constructed are temporary, the DEQ has concluded that this rule can be interpreted to allow impoundments to be operated with a minimum freeboard of one (1) foot on all temporary total retention surface impoundments when the temporary job site will be utilized for less than 180 days. If the water level reaches the 1 foot freeboard requirement, another impoundment must be constructed.

In addition a minimum freeboard of three () feet shall be maintained on all temporary total retention surface impoundments when the temporary job site will be utilized for greater than 180 days. If the water level reaches the 3 foot freeboard requirement, another impoundment must be constructed.

V. LAND APPLICATION AND BENEFICIAL REUSE OF WASTEWATER

Land application of wastewater for dust suppression only at mobile concrete batch plants is authorized, subject to additional State requirements as specified below and in General Permit OKG11MT, in accordance with OAC 252:616-11.

The wastewater covered under this authorization is classified as Class III wastewater in accordance with OAC 252:616-1-2. To maintain this classification, the wastewater to be land applied shall be free of visible sheen of oil or globules of oil or grease. The wastewater to be land applied shall be visually inspected prior to land application. An inspection log shall be maintained at the site and made available to DEQ upon request. Wastewater recycled into the concrete mixture is exempt from monitoring requirements.

There shall be no land application of wastewater during periods of precipitation or when soil is saturated or frozen.

There shall be no runoff of wastewater from the land application sites.

VI. RECYCLABLE CONCRETE MATERIAL AND DISPOSAL OF OTHER SOLIDS

Recyclable concrete material recovered from the scatter pile, impoundments and/or other means may be removed from the facility, provided that an accurate record is kept which includes the following: name and address of company or individual receiving the material, date material was received, and approximate location where material will be recycled.

Recyclable concrete material may be used by the permittee, at the job site, at any time. No records are required.

Solids, sludges, filter backwash, or other pollutants other than recyclable concrete material, removed in the course of treatment or control of wastewater shall be disposed of in a State-approved waste disposal site or to a company for recycling.

If any such industrial wastes are removed from the facility, the permittee shall keep accurate records that include the following information:

a. Name and address of company hauling waste;
b. The type and amount of waste hauled; and
c. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the DEQ's staff for review.

VII. CLOSURE REQUIREMENTS

Each owner/operator of a mobile concrete batch plant requesting to be authorized pursuant to the terms and conditions of this General permit shall submit and receive approval of a Closure Plan (Plan) that describes a generic methodology that will be used for the closure of impoundment(s) at each temporary job site. The Plan shall be submitted and receive DEQ approval prior to the issuance of an Authorization. Submittal of the Plan may be concurrent with the submittal of the initial Authorization application. This Plan is intended to meet the requirements of OAC 252:616-13-3. If the closure plan contains the following information, it is BPJ of the permit writer that a professional engineer is not required to design the closure plan.

The Plan shall include at a minimum the following information:

a. Background:

Describe the activity that took place at the site during the life of the impoundment.

b. Proposed closure activities:

(1) Wastewater: The following options are available for any wastewater remaining in the impoundment at the time of closure:

- allowed to evaporate
- pumped out and disposed of at a POTW
- used in industrial process
- used for dust suppresion onsite

(2) Sludge: The following options are available for any sludge remaining in the impoundment at the time of closure:

- removed and taken to landfill
- removed and taken to a company for recycling
- leave in place

c. Backfill

Include a discussion of the material to be used as backfill, sampling used to determine the characteristics of the backfill material, and the method of placement to be employed.

d. Disposal

Describe the disposal method and or recycle/reuse of any material associated with the impoundment, i.e piping, liner material, etc.

e. Certification of Closure

Within ten (10) days after closure of all temporary impoundments, the owner/operator of the mobile cement batch plant shall submit an affidavit of closure to the DEQ certifying that all impoundments were closed in accordance with the requirements of OAC 252:616-13 and the approved Plan.

VIII. RELOCATION NOTIFICATION

The permittee shall notify the DEQ within seven (7) days each time the mobile concrete batch plant is moved to a new location. The notification shall state the name and location of the site where the mobile concrete batch plant is to be located, an estimate on how long the plant is expected to be at the site and if impoundments will be used at the site. If impoundments will be utilized at the new location, the notification document shall include a completed Form 616-G11MTR for the new job site.

IX. ACKNOWLEDGEMENT

Within seven (7) days after receipt of a relocation notification, the DEQ will provide a written statement acknowledging receipt of the notification.

X. ADMINISTRATIVE RECORD

The following sources were used to prepare this Permit and constitute a part of the administrative record for this Permit:

A. DEQ RECORDS

- General Permit and fact sheet for mobile concrete batch plants (OKG11MT)

B. FEDERAL WATER POLLUTION CONTROL ACT (CLEAN WATER ACT), 33 U.S.C. 1251 et.seq.

- Section 301 and 402(a)

C. FEDERAL RULES AND REGULATIONS

- 40 CFR, in particular, Parts 122, 124, 136

D. STATE LAW, STANDARDS, AND RULES AND REGULATIONS

- Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. Supp., §2-6-201, et.seq
- OAC 252:606, OAC 252:616

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applications in which the applicant does not own all the land subject to the application must notify the owner(s) of leases and/or pipeline right-of-ways. The basis for this requirement is Title 27A of the Oklahoma Statutes, § 2-14-103(9), as described in OAC 252:004-7-13(b).

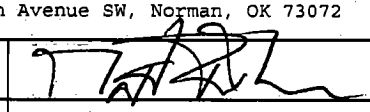
Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)		
	My application does not involve any land.		My application involves only land owned by me (or applicant business).

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
XX	Landowner(s)		Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
XX	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		
MY RIGHT TO USE THIS LAND is by:			

	Lease		Easement	XX	Other, Specify	ODOT Right of Way

LANDOWNER AFFIDAVIT CERTIFICATION			
I, as the applicant or an authorized representative of the applicant, hereby certify that notice to the landowner(s) about the permit application for the facility described below was provided per Option A or B above.			
Company Name	Sherwood Construction	Facility Name	Cemco Model #220; Facility ID: I-66001860
Facility Address or Legal Description.	1500 28th Avenue SW, Norman, OK 73072		
Responsible Official (signature)		Date Signed	7/16/15
Responsible Official (typed)	Matt Ritchie	Title	Vice President - Materials

If the landowner notice applies to your application (Option B Above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name)_____

(Applicant name) Sherwood Construction Co. has filed a permit application with the Oklahoma Department of Environmental Quality for (Name) Cemco Model #220; Mobile Batch Plant facility.

This application involves the land owned by you located at:

Address or Legal Description: 1500 28th Avenue SW, Norman, OK 73072

Signed:_____ Date:_____

Oklahoma Department of Transportation

Purcell Residency
23404 SH 74
Purcell, Oklahoma 73080

Office: (405)527-5569
Fax: (405)527-6576

February 18, 2015

Mr. Kevin Krause
Sherwood Construction Co.

REF: NHPPIY-0035-2(176)(304) – Portable Concrete Batch Plant

Mr. Krause:

This letter is to confirm that notice has been given to ODOT of the Portable Concrete Batch Plant that is proposed to be installed at 1500 28th Ave. SW in Norman. Installation of this plant on ODOT property is approved with the following contingencies:

- All Federal and Oklahoma environmental laws/requirements are met through the duration of the project
- Any debris produced by the plant are removed periodically and at the completion of the project
- The right of way is returned to its original state at the completion of the project
- Access is maintained to the Salt/Sand Storage Building through the majority of the project duration

If you would like to discuss this issue further please feel free to contact us.

Respectfully,

Lucas Reed

Lucas Reed, P.E.
Resident Engineer
Purcell Residency/ODOT

Cc: File

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

March 9, 2015

Matt Ritchie, Vice President - Materials
Greenhill Concrete Products, Inc.
P.O. Box 10
Catoosa, OK 74015

RE: Relocation of General Permit Authorization No. OKG11MT87
Greenhill Concrete Products, Inc.
Rogers County to Cleveland County, Oklahoma
Facility ID No. I-66001860

Dear Mr. Ritchie:

Your Certification of Closure and relocation form was received by the Oklahoma Department of Environmental Quality (DEQ) on February 23, 2015. The DEQ has reviewed your Certification of Closure and accepts the certification. The DEQ acknowledges the relocation of this mobile plant to 1500 28th Avenue Southwest, Norman, OK 73072. Upon future relocation of this mobile plant, Greenhill Concrete Products, Inc. must submit the relocation form 616-G11MTR within seven (7) days of relocation.

Thank you for your cooperation. If you have any questions concerning this submittal or the authorization, please contact Brandon Tyler at (405) 702-8215.

Sincerely,

Brandon Tyler
Industrial Permits Section
Water Quality Division

BT/ab BF

printed on recycled paper with soy ink

4716 N. 193rd E. Avenue
Post Office Box 10
Catoosa, OK 74015-0010
Telephone: (918) 266-6861
FAX (918) 266-6482

FAC 3421
99-034-C

SHERWOOD CONST. CO., INC.

HOWARD SHERWOOD, Chairman
JOHN CURTIS, President
ROD ABBOTT, V.P. Const.
ALLEN PAYNE, V.P. Const.
ED VOSS, V.P. Const.
DAVID SHERWOOD, V.P. Equip.
DIANE SHERWOOD, V.P. Human Res.
PAT BURNS, Sec.-Treas.
CONNIE KASSON, Ass't Sec.
JERRY NOLL, C.F.O.
JOHN SHERWOOD, Corp. Counsel

August 9, 1999

Mr. Jack Fly, PE - Senior Environmental Engineer
Oklahoma Department of Environmental Quality
Air Quality Division
5051 South 129th East Ave.
Tulsa, OK 74134-7004

RE: Air Quality Permit Application for Sherwood Construction Co., Inc. to construct a limestone quarry and crushed aggregate plant in Rogers County, Oklahoma

Dear Mr. Fly:

Enclosed please find 3 copies of a minor source permit application for a limestone quarry and rock crushing facility for Sherwood Construction Co., Inc. located in Southwest Rogers County, Oklahoma. The following items are inclosed as part of each application:

(1) ODEQ Form #100-884
(2) ODEQ Form #100-110
(3) ODEQ Form #100-810
(4) Facility Process Flow Diagram
(5) Facility Process Plant Plan
(6) Vicinity (Location) Map
(7) Instructions No: 1, 3, and 4
* (8) A check in the amount of $1000.00 made out to the ODEQ-Air Quality Division for the air permit application fee

If you have any questions or need any additional information regarding this permit application, please feel free to call me at (918)266-6861.

Sincerely,
SHERWOOD CONSTRUCTION CO., INC.

Larry E. Milliger, Ph.D., CHMM, REM

* ONLY ONE check submitted

MINOR SOURCE AIR QUALITY PERMIT APPLICATION

GREENHILL MATERIALS – LIMESTONE QUARRY AND ROCK CRUSHING FACILITY

Sections 2, 3, 10 and 11, T20N, R14E

Rogers County, Oklahoma

Prepared For:

Sherwood Construction Co., Inc.
4716 N. 193rd East Ave.
Catoosa, OK 74015

Prepared By:

Larry E. Milliger Ph.D., C.H.M.M., R.E.M.
Midwest Environmental Services, Inc.
P.O. Box 10
Catoosa, OK 74015

Date: August 6, 1999

The following information is included in this permit application packet:

1. Oklahoma Department of Environmental Quality, Air Quality Division, Minor Source Air Quality Permit Application for a Rock Crushing Facility:
   (a) Forms; and
   (b) Instructions No. 1, 3, and 4.

2. Figure 1. Limestone Aggregate Plant, Process Flow Diagram.

3. Figure 2. Limestone Aggregate Process Plant Plan.

4. Figure 3. Location map showing facility location within mine permit area (in pocket).

MINOR SOURCE PERMIT APPLICATION
for a
ROCK CRUSHING FACILITY
or a
SAND & GRAVEL OPERATION

FORMS & INSTRUCTIONS

AIR QUALITY DIVISION

STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

707 N. ROBINSON AVE., SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OK 73101-1677

PHONE: (405) 702-4100
FAX: (405) 702-4101

REVISED AUGUST 5, 1997

MINOR SOURCE APPLICATION INSTRUCTIONS
ROCK CRUSHING FACILITIES
SAND & GRAVEL OPERATIONS

ASSISTANCE AVAILABLE
DEQ Customer Assistance: (800) 869-1400
Air Quality Division: (405) 702-4100

INTRODUCTION
This package contains the State of Oklahoma Air Quality Permit Application for a Minor Source. Please read all the directions carefully before you fill it out. Answer all questions by checking the appropriate box or filling in a response. Original signature from a responsible official is required on Form 884. Please note that delays in processing your application may occur if an incomplete application is submitted. It is the applicant's responsibility to submit a complete application well in advance of anticipated commencement of construction, start up dates, or the effective date of operating permit program requirements to allow sufficient time for proper application review and permit issuance.

BACKGROUND
Oklahoma operates a dual air quality permit system under Oklahoma Administrative Code (OAC) 252:100. A *construction permit* is to be obtained prior to the commencement of construction, installation or modification of any source which will increase the amount of air contaminant emissions by more than the de minimis levels given in OAC 252:100-7-2. After construction is completed, application for an *operating permit* must be submitted within 180 days after start up. If you are uncertain whether a permit is required, a request for an applicability determination may be submitted to DEQ and a written determination will be made based on the data submitted. An applicability determination can also be performed to determine whether a facility is a major or minor source.

DEFINITIONS
Criteria Pollutant: Oxides of Nitrogen (NOx), Sulfur Dioxide (SO_2), Lead (Pb), Ozone (O_3, i.e., regulated as non-methane hydrocarbon or NMHC as a precursor to O_3), Particulate Matter less than 10 microns (PM_{10}), Carbon Monoxide (CO).

Minor Source: A source that has the potential to emit less than 100 tons/year of a criteria pollutant, less than 10 tons/year of any single hazardous air pollutant, and less than 25 tons/year total hazardous air pollutants in the aggregate. These sources are classified as Tier I sources and follow the simplest type of application process.

Synthetic Minor Source: A source which has the potential under maximum operating conditions to emit at the Major Source level but which has a permit which restricts emissions to the minor source level. Such restrictions may include any of the following: hours of operation, emission control devices, and throughput. Applications for minor source permits are classified as either Tier I or Tier II, depending on several factors.

Major Source: A source that has the potential to emit more than 100 tons/year for criteria pollutants, 25 tons/year of hazardous air pollutants, or 10 tons/year of any single hazardous air pollutant. Additionally, a Major Source will not have permit requirements which restrict all actual criteria pollutant and hazardous air pollutant emissions to less than these levels. These sources are complex in their potential impact and are subject to the Tier II or Tier III application process.

TIER DETERMINATION
DEQ's "Uniform Permitting" system, under OAC 252:002, categorizes applications as Tier I, II, or III, depending on their complexity and the amount of public interest. The main effect of a Tier classification is the amount of public review given the application. For Air Quality permits, Tier I basically includes minor sources and most synthetic minor sources. Tier II covers major sources, and Tier III covers only very large sources such as those requiring PSD review. **This packet is designed (only) to meet the application requirements for most Rock Crushing Facilities and Sand & Gravel Operations which are minor sources or synthetic minor sources and qualify as Tier I applications.** Other facilities, including those with emission units not covered in this application packet and those that need emissions modeling assistance, should contact Air Quality for information or additional forms and/or worksheets.

PERMIT FEES
Applicants must attach a check or money order (no cash will be accepted) payable to the DEQ Air Quality Division in accordance with the following schedule. Please reference the facility name (or existing permit or application number) on the check.

Emissions	Construction Fee	Operating Fee	Relocation Fee
0 to 39.99 TPY	$1000	$500	$100
40 to 99.99 TPY	$1500	$500	$100
Modifications: (no emissions increase)	$500	$200	—
Uncertain	$250 Applicability Determination Fee (applied toward permit fee if required)		

APPLICATION MUST INCLUDE:
1. DEQ Form # 100-884 (General Facility Information Form)
2. DEQ Form # 100-110 (Emission Units information for each unit on site)
3. DEQ Form # 100-810 (Landowner Affidavit)

SUBMIT 3 COPIES OF COMPLETED APPLICATON TO:
DEPARTMENT OF ENVIRONMENTAL QUALITY
FINANCIAL & HUMAN RESOURCES MANAGEMENT
P.O. BOX 2036

5. Facility Plot Plan & Process Flow Diagram

Instruction No. 1 provides information required for installations involving process operations. Seventeen (17) information items are required to comply with Instruction No. 1.

1. Description of the process or operation.
   This facility is a limestone crushing operation. Forms developed by the Oklahoma Department of Environmental Quality, Air-Quality Division, and revised August 5, 1997, accompany this application, and describe the process or operation. The ODEQ forms are titled:

   MINOR SOURCE AIR QUALITY PERMIT APPLICATION
   for a
   ROCK CRUSHING FACILITY
   or a
   SAND & GRAVEL OPERATION

   In addition, the enclosed Figure 1 is a flow chart of the proposed limestone aggregate processing plant showing equipment, particulate emission points and emission controls.

2. Include a process flow diagram identifying each operation or process.
   See Figure 1, enclosed.

3. The applicant must list and identify all expected air emissions, including toxic and hazardous substances.
   This information is provided in the enclosed ODEQ forms revised August 5, 1997, and titled:

   MINOR SOURCE AIR QUALITY PERMIT APPLICATION
   for a
   ROCK CRUSHING FACILITY
   or a
   SAND & GRAVEL OPERATION

   Emissions are keyed to equipment numbers shown on the process flow diagram, Figure 1.

4. For major sources.....
   Not Applicable.

5. Give maximum process weight in pounds per hour and basis for calculating or establishing this hourly rate. For nonmetallic mineral processing plants provide the maximum process weight in pounds per hour for each piece of equipment including each conveyor belt, and the plant capacity (the cumulative rated capacity of all initial crushers that are part of the plant).

This information is provided in the enclosed ODEQ forms revised August 5, 1997, and titled:

MINOR SOURCE AIR QUALITY PERMIT APPLICATION
for a
ROCK CRUSHING FACILITY
or a
SAND & GRAVEL OPERATION

The ODEQ forms provide process rates in tons per hour. The plant capacity, as determined by the maximum rated capacity of the initial crusher is 300 tons per hour.

6. Hours of operation per day, days per week, and weeks per year.
The normal hours of operation are:
10 hours per day;
5 days per week;
50 weeks per year; and
not to exceed a total of 2500 operating hours per year.
Any temporary modifications to the normal hours or days of operation will not result in an exceedance of the maximum of 2500 operation hours per year.

7. Describe the raw materials used in the process.
Limestone rock is the raw material used in the process.

8. If the process is cyclical instead of continuous, give length of cycle and time between cycles.
The process is not cyclical.

9. Does process involve use of potentially hazardous air contaminants and toxic materials?
The process does not involve the use of potentially hazardous air contaminants or toxic materials.

10. For any combustion units provide the information requested in Instruction No. 4, Items 2, 3, 4, and 7.
See attached Instruction No. 4.

11. For any hydrocarbon storage tanks provide the information requested in Instruction No. 3.
See attached Instruction No. 3.

12. Include a plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Key all flows and discharge outlets to the process flow diagram by number or other identification means.
See attached Figures 1 and 2.

13. Include an area plot plan showing location of the establishment, property lines, and the surrounding area residences, other types of structures and roadways.
See attached Map 1.

14. Fugitive Dust Control. Specify the procedures to be used to minimize air pollution from operations not involving process emissions in which particulates are likely to be wind-borne, including the following items:
    (a) Service roads and parking areas.
    (b) Stockpiles and storage areas.
    (c) Loading and unloading materials.
    (d) Transportation of dusty material by truck.
    (e) Any other enterprise which involves a substance likely to be scattered by wind or susceptible to being airborne.

    All fugitive emissions will be controlled by using water on an as-needed basis. A water truck will water haul roads as needed. Stockpiles and loading operations will not require watering due to the washing and water spray dust control used in the limestone crushing, screening, and washing process. Dust control will not be applied to the limestone boulders transported by truck to the rock-crushing facility. Truck unloading will involve water spray dust control at the point of entry onto the grizzly (see Figure 1).

15. Emission Point Data
    Not applicable. No stacks are present.

16. Specify whether stack sampling ports are being included in the construction, and identify which stacks.
    Not applicable. No stacks or stack sampling ports are being included in the construction.

17 Air Pollution Control Equipment
    No air pollution control equipment is utilized, other than water to control particulates.

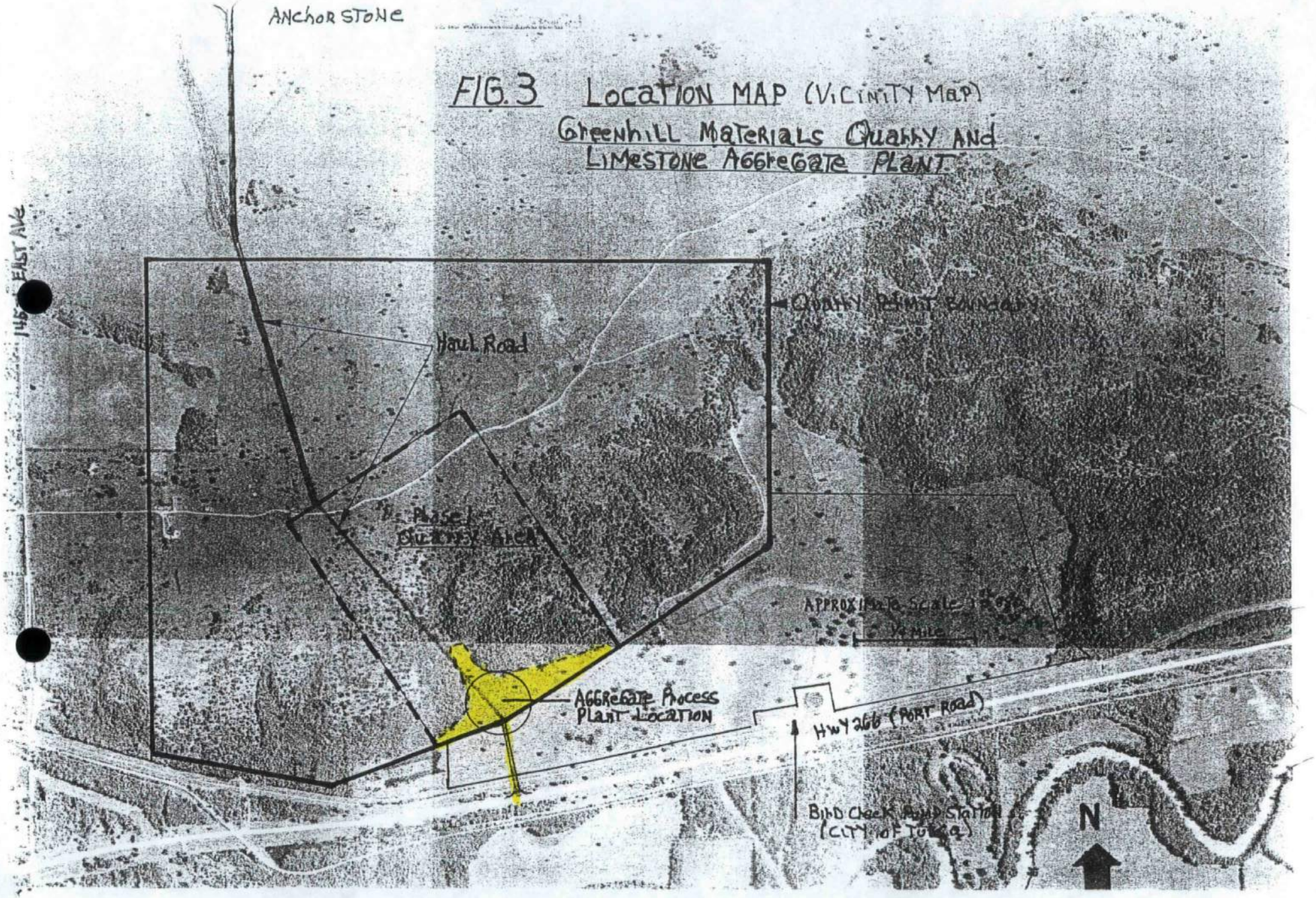
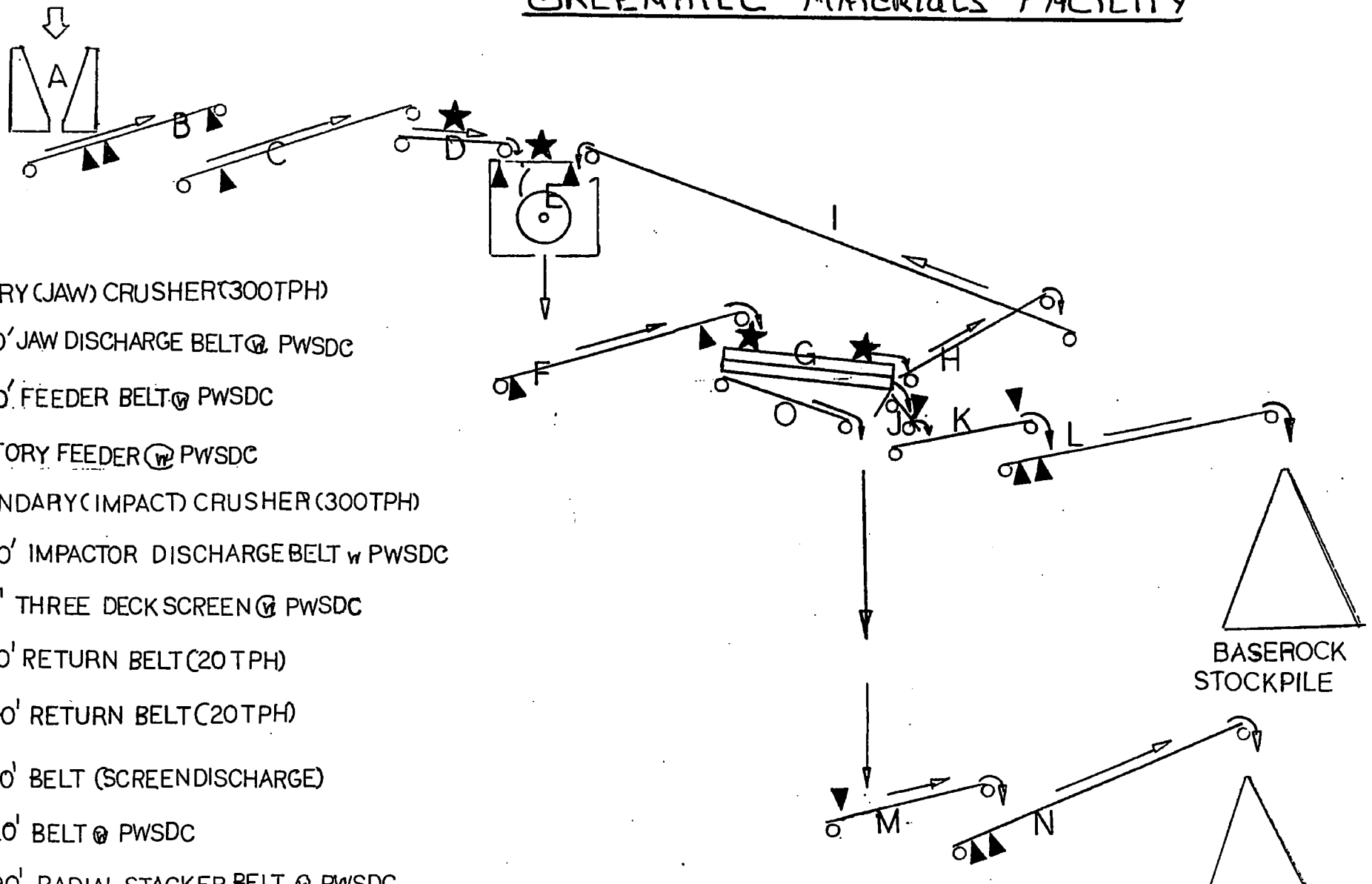

ANCHOR STONE
FIG. 3 LOCATION MAP (VICINITY MAP)
GREENHILL MATERIALS QUARRY AND
LIMESTONE AGGREGATE PLANT
145th East Ave
Haul Road
Quarry Permit Boundary
Phase I Quarry Area
Approximate Scale 1 Inch = ¼ Mile
Aggregate Process Plant Location
Hwy 266 (Port Road)
Bird Creek Pump Station (City of Tulsa)
N

FIG. I – AGGREGATE PLANT – PROCESS FLOW DIAGRAM

GREENHILL MATERIALS FACILITY



A PRIMARY (JAW) CRUSHER (300TPH)

B 36" x 40' JAW DISCHARGE BELT @ PWSDC

C 54" x 30' FEEDER BELT @ PWSDC

D VIBRATORY FEEDER @ PWSDC

E SECONDARY (IMPACT) CRUSHER (300TPH)

F 54" x 40' IMPACTOR DISCHARGE BELT @ PWSDC

G 6' x 20' THREE DECK SCREEN @ PWSDC

H 42" x 40' RETURN BELT (20 TPH)

I 30" x 60' RETURN BELT (20TPH)

J 30" x 10' BELT (SCREEN DISCHARGE)

K 36" x 20' BELT @ PWSDC

L 30" x 90' RADIAL STACKER BELT @ PWSDC

M 36" x 40' BELT @ PWSDC

N 30" x 100' RADIAL STACKER BELT @ PWSDC

O 36" x 20' UNDERSCREEN BELT

▲ – 4FT SPRAY BAR WITH DOUBLE ROW OF SPRAY HEADS ON 6" CENTERS

★ – 10FT SPRAY BAR WITH SPRAY HEADS ON 12" CENTERS

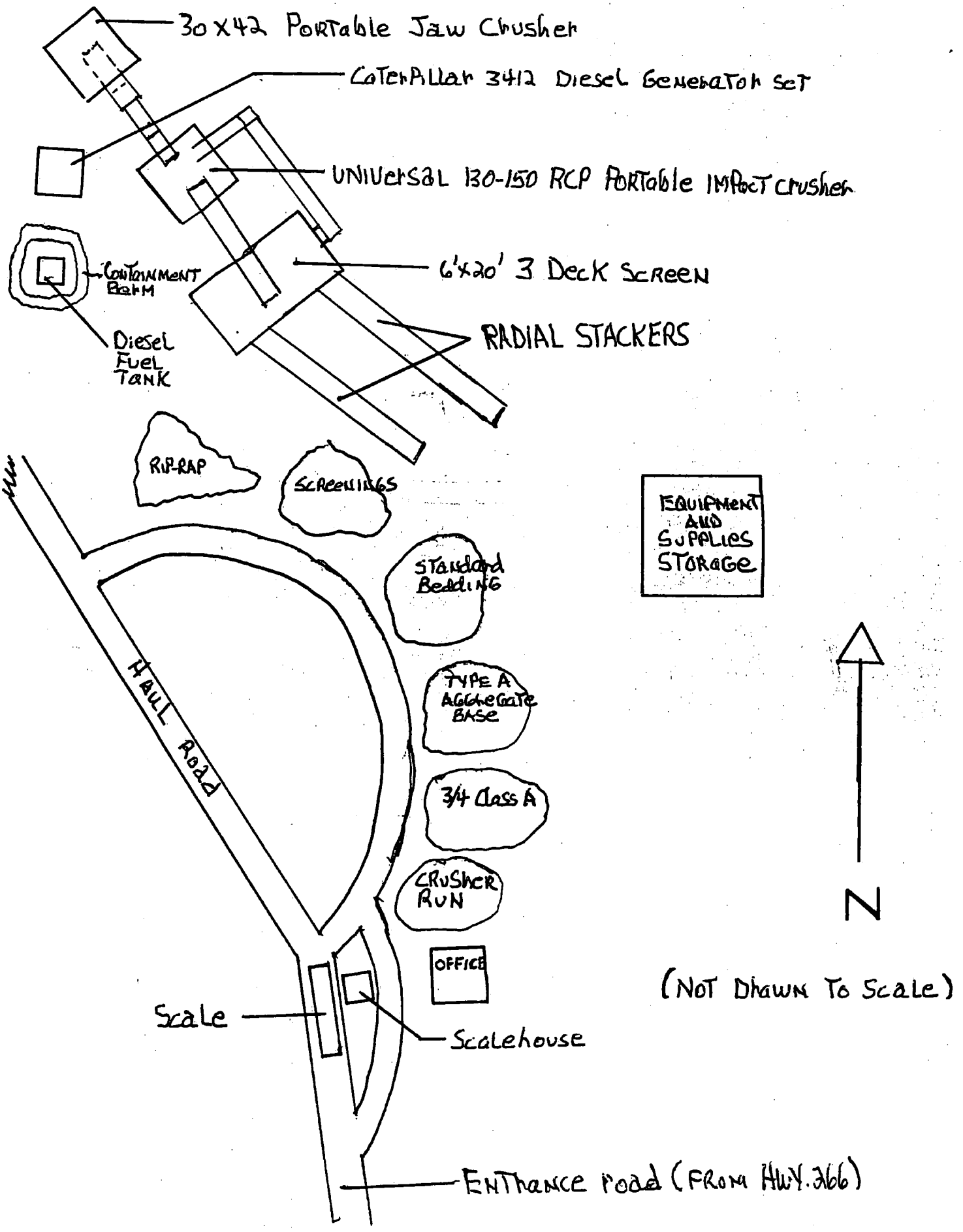
PWSDC – PRESSURE WATER-SPRAY DUST CONTROL

FSI FOGGER SYSTEM

1 (1 HP) PUMP @ 100 PSI

1 (2HP) PUMP @ 100 PSI

FIGURE 2 PROCESS PLANT PLAN
GREENHILL MATERIALS FACILITY



AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

1	COMPANY INFORMATION	Name	Sherwood Construction Co., Inc.			
Mailing Address	4716 N. 193rd East Ave.					
City	Catoosa,	State	OK	Zip	74015	

2	APPLICATION TYPE (check one)							
	Applicability Determination	X	Construction		Operation		Modification		Relocation
Est. Date of Construction/Modification Start		11/1/99	Completion	10/15/99				
Operational Start-up Date		5/1/2000						

3	CONFIDENTIAL INFORMATION INCLUDED	YES	NO X

4	TIER CLASSIFICATION	X	Tier I		Tier II		Tier III		N/A AD only
FACILITY TYPE	X	Minor					Major		

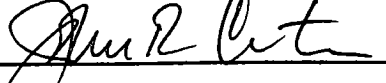
5	FEES SUBMITTED	$1,000.00	CHECK #		DATE

6	TECHNICAL CONTACT	Name	Larry E. Milliger			
Phone	(918)266-6861			Fax	(918)266-6482	
Company Name	Sherwood Construction Co., Inc.					
Street Address	4716 N. 193rd East Ave.					
City	Catoosa,			State	OK	Zip 74015

7	FACILITY INFORMATION	Name				
Description	Limestone Quarry, Crusher and Loadout Area					
SIC Code(s)	1422					
Contact Person	Larry Milliger	Title	Project Manager	Phone	(918)266-6861	
Legal Description	Section 10	Township	20N	Range	14E	
Physical Address or Driving Directions	From intersection of 193rd East Ave and Hwy 266(Port Road) proceed west on 266 approximately 2.1 miles and turn right at the entrance to the crusher haul road.					
City or Nearest Town	Catoosa,	Zip	74015	County	Rogers	

8	Describe Any Residence, Park, School, etc. within ½ mile	None located within 1/4 mile

9 LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
None

10	APPLICATION CERTIFICATION		
This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.			
Responsible Official (signature)			
Responsible Official (typed)	John R. Curtis	Date	10 Aug 99
Responsible Official Title	President	Phone	(918)266-6861

EMISSION UNITS - ROCK CRUSHING & SAND FACILITIES

MINOR SOURCE EQUIPMENT DESCRIPTION

In the table below, please list all emission units, (e.g., hoppers, crushers, grinders, screens, stockpiles, organic liquid storage tanks, and other miscellaneous equipment) located at the facility. For each unit, give an unique identifier (e.g. facility numbering system or emissions inventory ID#), number of operation hours per year, the equipment installation date (actual or projected), and the date the equipment was manufactured or modified. In the last column, indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit).

EMISSION UNITS (Equipment)		Operating Hours Per Year	Manufacture or Modify Date	Installation Date	Unit Subject of this Permit Action?	
ID #	Description				Yes	No
01A	Primary (Jaw) Crusher	2000	1994	10/15/99	X	
02B	36" X 40' Discharge Belt	2000	1994	10/15/99	X	
03C	54" X 30' Feeder Belt	2000	1994	10/15/99	X	
04D	Vibratory Feeder	2000	1994	10/15/99	X	
05E	Secondary (Impact) Crusher	2000	1994	10/15/99	X	
06F	54" x 40' Discharge Belt	2000	1994	10/15/99	X	
07G	Three Deck Screen	2000	1994	10/15/99	X	
08H	42" x 40' Return Belt	2000	1994	10/15/99	X	
09I	30" x 60' Return Belt	2000	1994	10/15/99	X	
10J	30" x 10' Screen Discharge	2000	1994	10/15/99	X	
11K	36" x 20' belt	2000	1994	10/15/99	X	
12L	30" x 90' Radial Stacker	2000	1994	10/15/99	X	
13M	36" x 40' Belt	2000	1994	10/15/99	X	
14N	30" x 100' Radial Stacker	2000	1994	10/15/99	X	
15O	36" x 20' Underscreen Belt	2000	1994	10/15/99	X	
	(SEE ATTACHED CONTINUATION LIST)					

Please provide the following information for each piece of equipment which is subject of the requested permit action. Data submitted for construction permits should be a best estimate. The values may be modified following construction and/or subsequent testing. This information is necessary to determine the emissions. Indicate crusher type according to product size, as used in AP-42, (1/95), Section 11.19.2: primary (3 to 12 inches), secondary (1 to 4 inches), or tertiary (3/16th to 1 inch). Likewise, indicate for each screen whether it serves as a fines screen or "other." Provide the requested information for each transfer point, including truck unloading, if applicable.

EMISSION POINTS - CRUSHERS/GRINDERS		Process Rate	Controls		Emission Factor (lb/ton)	
ID#	Crusher Type	(TPH)	Type	Efficiency	Controlled	Uncontrolled
01A	Primary(Jaw)Crusher with Grizzley Feeder	250	Water Spray	80%	0.00059	.00295
05E	Secondary(Impact)Crusher	250	Water Spray	80%	0.00059	.00295
SCREENS		**Process Rate**	**Controls**		**Emission Factor (lb/ton)**	
ID#	**Screen Type**	**(TPH)**	**Type**	**Efficiency**	**Controlled**	**Uncontrolled**
07G	Primary Screen Triple Deck(6'x20')	250	Water Spray	94.40%	0.00084	0.015

EMISSION UNITS (Equipment) CONTINUED		Operating Hours	Manufacture or Modify	Installation Date	Unit Subject of this Permit Action?	
ID #	Description	Per Year	Date		Yes	No
16P	Standard Bedding Stockpile	2500	----	----	X	
17Q	Type A-Aggregate Base Stockpile	2500	----	----	X	
18R	3/4" Class A Stockpile	2500	---	---	X	
19S	Crusher Rucn Stockpile	2500	---	---	X	
20T	Screenings Stockpile	2500	---	---	X	
21U	Rip Rap From Grizzley	2500	---	---	X	
22V	10,000gal Above Grnd Diesel Tank	2500	1994	10/15/99	X	
22W	Diesel Powered 545KW Generator	2500	1994	10/15/99	X	
23X	Haul Roads	2500	---	---	X	

OTHER EQUIPMENT		Process Rate	Controls		Emission Factor (lb/ton)	
ID#	Equipment Type	(TPH)	Type	Efficiency	Controlled	Uncontrolled
12L	30"x90' Radial Stacker	220	water spray	90%	0.00014	0.0014
14N	30"x100' Radial Stacker	30	water Spray	90%	0.00014	0.0014

STOCKPILES (Total Estimated Fugitives from Storage Piles)		Stockpile Area	Controls		Emission Factor (lb/acre/day)	
ID#	Stored Material	(Acres)	Type	Efficiency	Controlled	Uncontrolled
16P	Standard Bedding	0.2	None	---	---	6.3
17Q	Type A-Aggregate Base	0.2	None	---	---	6.3
18R	3/4" Class A	0.2	None	---	---	6.3
19S	Crusher Run	0.3	None	---	---	6.3
20T	Screenings	0.2	None	---	---	6.3
21U	RipRap From Gizzley	0.03	None	---	---	6.3

MATERIAL TRANSFER POINTS		Process Rate	Controls		Emission Factor (lb/ton)	
From (ID#)	To (ID#)	(TPH)	Type	Efficiency	Controlled	Uncontrolled
01A	03C	250	water spray	90%	0.00014	0.0014
02B	04D	250	water spray	90%	0.00014	0.0014
03C	05E	250	water spray	90%	0.00014	0.0014
05E	07G	250	water spray	90%	0.00014	0.0014
07G	09I	20	water Spray	90%	0.00014	0.0014
08H	05E	20	water spray	90%	0.00014	0.0014
07G	13M	30	water spray	90%	0.00014	0.0014
15O	14N	30	water spray	90%	0.00014	0.0014
07G	11K	220	water spray	90%	0.00014	0.0014
10J	12L	220	water spray	90%	0.00014	0.0014

EMISSIONS DATA SOURCE	X	AP-42 [illegible]		Other (Specify)	

CONTROL OF FUGITIVE DUST FROM VEHICLE TRAVEL					
Miles of Paved Facility Roads	-0-		Miles of Unpaved Facility Roads		1
Road Dust Suppression Practices	X	Water Truck		Road Oiling	
		Other (Specify)			

Please provide the following information if organic liquid storage tanks (e.g., fuel, solvents) with capacity of 400 gallons or more are operated at the facility. Data submitted for construction permits should be a best estimate. The values may be modified following construction and/or subsequent testing. Applicants must fill out a complete table for each such tank which has a capacity of 400 gallons or more.

STORAGE TANKS	Tank ID #	22V			Construction / Modification Date	1994
Type of Liquid Stored:		Gasoline	X	Diesel		Other (Specify):
Tank Capacity (gallons)		10,000			Vapor Pressure (psia)	0.12
Tank Height (ft)		30' length			Tank Diameter (ft)	9'
Maximum Throughput (gallons/year)		25,000			Tank Color	White
Controls:	X	Submerged Fill Pipe		Vapor Recovery System		Other (Specify):

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applications in which the applicant does not own all the land subject to the application must notify the owner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:002-15-30(b)(3).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)		
	My application does not involve any land		My application involves only land owned by me (or applicant business)

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	X	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one)			
	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
X	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		
MY RIGHT TO USE THIS LAND is by:			
X	Lease	Easement	Other, Specify

LANDOWNER AFFIDAVIT CERTIFICATION			
I, as the applicant or an authorized representative of the applicant, hereby certify that notice to the landowner(s) about the permit application for the facility described below was provided per Option A or B above.			
Company Name	Sherwood Construction	Facility Name	Greenhill Materials
Facility Address or Legal Description	NE/4, SE/4, Section 10, T20N, R14E, Rogers County		
Responsible Official (signature)	John R Curtis	Date Signed	10 Aug 99
Responsible Official (typed)	John R. Curtis	Title	President

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) John T. Oxley Estate, Suite 1300, Williams Center Tower I, 1 West 3rd Street, Tulsa, OK 74103

(Applicant name) Sherwood Construction has filed a permit application with the Oklahoma Department of Environmental Quality for (Name) Greenhill Materials facility.

This application involves the land owned by you located at:

Address or Legal Description: NE/4, SE/4, Section 10, T20N, R14E, Rogers County

Signed: _____ Date: _____

ESTATE OF
JOHN T. OXLEY
WILLIAMS CENTER TOWER I
SUITE 1308
ONE WEST THIRD STREET
TULSA, OKLAHOMA 74103-3523

August 9, 1999

John R. Curtis
Sherwood Construction Co.
P.O. Box 10
Catoosa, OK 74015

Re: Greenhill Materials
Quarry rock processing area
Section 10, T20N, R14E
Rogers County, Oklahoma

Dear John:

The owners understand that rock crushing, rock screening, and rock manipulation operations are scheduled to be performed on the referenced property.

Very truly yours,

R. H. Harbaugh, Jr.
Attorney for the Owners

RHH:kp

MIDWEST ENVIRONMENTAL SERVICES, INC.
INSTRUCTION NO. 1
AIR EMISSIONS WORKSHEET FOR UNPAVED ROADS
AP-42 (9/85) 11.2.1

Sherwood Construction Co., Inc.
Greenhill Materials – Limestone Quarry and Rock Crushing Facility
Sections 2, 3, 10 and 11, T20N, R14E
Rogers County, Oklahoma

$E = K(5.9) \times (s/12) \times (S/30) \times (W/3)^{0.7} \times (w/4)^{0.5} \times [(365-P)/365]$
E = pounds of particulates per vehicle mile traveled where:

E = Emission Factor	Calculated Result
k = Particle Size Multiplier	From 11.2.1
s = Silt Content of Road Surface Material (%)	From 11.2.1
S = Mean Vehicle Speed (MPH)	Per Operator
W = Mean Vehicle Weight (Tons)	Per Operator
w = Mean No. of Wheels	Per Operator
P = Number of Days with at Least 0.01 in. of Precipitation Per Year	From 11.2.1

This calculation is performed for
(1) Plant roads (estimated 0.5 mile maximum)
(2) Haul roads (estimated 1.5 mile maximum)

The plant roads will be traveled by customers picking up crushed aggregate products in either 10 wheel dump trucks or 18 wheel truck/end-dump trailers.

The haul roads will be traveled primarily by large off-road haul trucks hauling between the mine and the crusher located at Anchor Stone Co.

Truck Type	Empty Weight	Ave. Loaded Weight	# of Wheels
10-wheel Dump Truck	36,000lbs(18Tons)	78,000lbs(39Tons)	10
18-wheel Truck/Dump Trailer	50,000lbs(25Tons)	90,000lbs(45Tons)	18
Off Road Haul Truck	93,000lbs(46.5Tons)	224,000lbs(112Tons) (Maximum)	6

VARIABLE	PLANT ROADS (0.5 Miles)	HAUL ROADS (1.5 Miles)
k (Dimensionless Factor)	0.5	0.5
s (% Silt)	11	9.6
S (MPH)	10	20
W (Tons)Emty & Full	31.75(Ave)	79.25(Ave)
w (No. of Wheels)	14(Ave)	6(Ave)
P (Days of 0.01 in.)	95	95
Average Annual Tons	500,000	1,500,000
VMT (Vehicle Miles Traveled)	500,000/20.5=24,390 loads	1,500,000/65.5 = 22,900 loads
	24,390 x 0.5m = 12,195 Miles	22,900 x 1.5 m = 34,350 Miles

* This is calculated by dividing average annual tons by average load (tons) and multiplying this result by road length (miles).

E (For Haul Roads) = pounds of particulates per vehicle mile traveled = 14.03 lbs

E (For Plant Roads) = pounds of particulates per vehicle mile traveled = 6.42 lbs

TOTAL-E (Plant Roads) = 6.42 x 12,195= 39 Tons

TOTAL-E (Haul Roads) = 14.03 x 34,350 = 241 Tons

Total Annual Emissions using water spray for dust control (90% efficiency)

<u>From Plant Roads</u>
39 Tons x 0.1 = 3.9 Tons

<u>From Haul Roads</u>
241 Tons x 0.1 = 24.1 Tons

Total annual controlled dust emissions from vehicular traffic on both haul roads and plant roads = 28 Tons/yr.

Instruction No. 3 provides information required for installations involving the storage and handling of organic materials. Four (4) information items are required to comply with Instruction No. 3.

1. Specify the geographical location of the installation.
   The Sherwood Construction Co., Inc. Greenhill Materials Limestone Quarry and Rock Crushing Facility is located in parts of sections 2, 3, 10 and 11, Township 20 North, Range 14 East, Rogers County, Oklahoma. The limestone aggregate processing plant that is the subject of this permit application is located at the far south end of the mining area, about 2 miles west of the west entrance to the Port of Catoosa, and north of highway 266. (See figure 3)

2. Storage tanks – 40,000 gallons or greater capacity.
   Not applicable.

3. Storage tanks – 250 to 40,000 gallons capacity.

   The following information applies to two identical aboveground storage tanks at the facility:

(a) Description of materials to be stored in tank.	Diesel
(b) Vapor pressure of material to be stored.	0.012
(c) Tank capacity.	10,000 gallons
(d) Tank dimensions, diameter, height, and color.	9' diameter,30' length, White
(e) Discharge depth and diameter of the submerged Fill pipe.	5' depth, 3" diameter
(f) Description of vapor control procedures.	None other than submerged fill pipe
(g) Tank throughput in gallons per year.	20,000 gallons (maximum)

4. Loading facilities.
   Not applicable

Instruction No. 4 provides information required for installations involving fuel-burning equipment. Nine (9) information items are required to comply with Instruction No. 4.

1. Description of the operation and the proposed fuel-burning equipment.
   The proposed fuel-burning equipment consists of a 545 KW Model 3412 Catepillar Generator Set powered by a 1649 Cu. inch water-cooled (v-12) four stroke, diesel engine. This unit provides power to run the Greenhill Materials Limestone Crushing Facility.

2. Maximum, rated, and normal heat input capacities of the equipment in Btu per hour.
   Maximum Heat Input = 1.09 Million BTU/Hr.
   Rated Heat Input = 0.87 Million BTU/Hr.
   Normal Heat Input = 0.76 Million BTU/Hr.

3. Fuel(s) used, sulfur content in fuel average and maximum, heat content (average) as fired.
   Fuel used - No. 2 Diesel
   Sulfur Content - 0.4%
   Average Heat Content - 137,000 BTU/Gal.

4. Fuel consumption capacity at maximum, rated, and normal firing in gallons per hour for oil.
   At Maximum Heat Input = 8.0 Gallons/Hr.
   At Rated Heat Input = 6.4 Gallons/Hr.
   At Normal Heat Input = 5.5 Gallons/Hr.

5. Hours of operation per day, days per week, and weeks per year.
   Hours of Operation - 10 Hours/Day
   (Normal) - 5 Days/Week
   -50 Weeks/Year
   -OR-
   (Maximum) - 2,500 Hours/Year

6. Expected air Emissions in pounds per million Btu, pounds per hour, and tons per year. Source of Emission Factors: AP-42, Table 3.3-1 (10/96).

	EMISSION FACTORS		FUEL BURNED	EMISSIONS
POLLUTANT	LB/MMBTU	LB/1,000 GAL	10^3GAL/YEAR	TONS/YEAR
NO_X	4.41	604.2	16.0	4.8
CO	0.95	130.1	16.0	1.04
SO_X	0.29	39.7	16.0	0.32
PM-10	0.31	42.1	16.0	0.34
TOC (Total)	0.36	50.7	16.0	0.41

7. If unit has a rated heat input of 50 million Btu per hour or greater.....
   Not Applicable.

8. Specify monitoring equipment to be installed.
   None.

9. Include the following items of information as specified and listed in Instruction No. 1:

Item 11. Facility Plot Plan	See Figure 2
Item 12. Area Plot Plan	See Map 1
Item 13. Fugitive Dust Control	See Figure 1
Item 14. Stack Data	Not Applicable
Item 15. Stack Sampling Facilities	Not Applicable
Item 16. Waste Material Handling	Not Applicable
Item 17. Air Pollution Control Equipment	Not Applicable

APPLICATION/PERMIT ISSUANCE EVENT TRACKING
AIR QUALITY DIVISION

RECEIVED
AUG 10, 1999

Company Name:Greenhill Materials, Sherwood Constr. FAC 3421

Facility Name City Catoosa (TULSA) County: TULSA

Permit Number:99034c Engineer: **Jack Fly**

Steps	Date	Initials
Fee Received Amount$1000__ Receipt No.___ (Tulsa)	8/10/99	
Facility Type _A_ **RDI: 20**_ ____Title V Facility _X_ Non Title V Facility **Application Type:** _____ Applicability Determination __X__Construction ___Operation _____Title V _____ GOP Authorization _____Modification _____Relocation _____Temporary	8/10/99	
Confidential Information Included: X ___No _____ Yes (Requires a separate file)	8/10/99	
Tier Classification: _X_(I)___ II __X__ III ___ N/A	~~8/10/99~~ 8/12/99	DD
Tracking Log Entry and Distributed to Engineer	8/11/99	MP
Administrative Review (Start date is the date application received by AQD)		
• Fee Assessment: Total Due $_1000_ Total Received_$_1000___	8/10/99	
• Landowner Affidavit Received	8/10/99	
• Filing Notice Received (Only Tier II & III)		
• EPA Transmittal Form Received (Only Title V)		
• Notice of Deficiency		
• Response		
• Completeness Letter		
Technical Review (Start date)		
• Notice of Deficiency		
• Response		
• Notice of Deficiency 2		
• Response 2		
Draft Permit Prepared	9/14/99	JF
Enforcement Review	10-4-99	JH
Coordination as Required	N/A	
Technical Supervisor Review 10-4-99 DW	10/4/99	DD
Permit Form & Letter Typing	N/A	
Draft Permit Public Notice (Only Tier II & III) Approval by Director AQD		
• Distribution to: ____Affected State, _____EPA, _____Applicant		
• Draft Permit Notice Received		
• Public Comment Period Starts		
• Public Meeting Held		
Proposed Permit Public Notice (Only Tier III) Approval by Director AQD		
• Distribution to: ____Affected State, _____EPA, _____Applicant		
• Proposed Permit Notice Received		
• Public Comment Period Starts		
• Response to Comments Mailed		
Final Approval by Director AQD PERMITS	10-5-99	DFL
Final Approval by Executive Director DEQ (Only Tier III)	N/A	
Final Processing		
• Distribution to:_____Applicant, _____ ECLS Office, _____ EPA, _____ Internal	10-5-99	(illegible)
• Entered in Permit Archive		
• File Created in File Room		

665 7232

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

October 4, 1999

Mr. Larry Millerger, Ph.D., Environmental
Sherwood Construction CO.,. Inc
POBox 10
Catoosa, OK 74015-0010

Re: Evaluation of Applicability Determination No. **99-034-C**
Greenhill Materials
Rogers County Limestone Quarry and Rock Crusher

Dear Mr. Milliger:

Enclosed is the permit authorizing construction of the referenced facility. Please note that this permit is issued subject to certain standard and specific conditions, which are attached. An application for a minor source-construction permit, along with the appropriate application fee, must be filed within 60 days following completion of construction.

Thank you for your cooperation in this matter. If I may be of further service, or you have any questions about this permit, please call me at (918) 461-7421.

Sincerely,

Jack Fly
Permit Writer
AIR QUALITY DIVISION

Enclosure

printed on recycled paper with soy ink

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Date OCT. 4, 1999 Permit No. 99-034-C

Greenhill Materials

having complied with the requirements of the law, is hereby granted permission to construct a lime stone quarry and a rock crushing plant in Catoosa, Rogers County, Oklahoma,

subject to the following conditions attached:

[X] Standard Conditions

[X] Standard Conditions for EPA New Source Performance Standards

[X] Specific Conditions

Chief Engineer, Permits Section

DEQ Form 885
Revised 7/93

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **October 4, 1999**

TO: Dawson Lasseter, P.E., Chief Engineer, Permits Section

THROUGH: Dave Dimick, P.E., Supervisor, Existing Source Permits Unit
Don Whitney, P.E., Supervisor, New Source Permits Unit

THROUGH: Peer Review

FROM: Jack Fly

SUBJECT: Evaluation of Permit Application No. **99-034-C**
Greenhill Materials
Rogers County Quarry and Portable Rock Crushing Plant
Catoosa, Rogers County
Driving Directions: 2.1 miles west from intersection of Tulsa 193rd Ave east, and state highway 266 (Port of Catoosa Road)

INTRODUCTION

The applicant has applied for a construction permit for a quarrying and limestone crushing operation (SIC 1422). This facility provides crushed limestone for the construction, road-building, and agricultural industries. Crushing and screening accomplish reduction of the extracted rock to finished marketable sizes. Even though the rock-crushing machine is capable of being highway portable, Greenhill does not have any immediate plans to relocate the crusher.

The rock to be crushed and screened will be trucked to the crushing location from the contiguous Rogers County Quarry (operated under this permit by Greenhill Materials). The rock crusher consists of a hopper/primary crusher, secondary crusher, screen, twelve conveyors, two radial stackers, and a 545 kW electrical generator set powered by a 820-bhp diesel engine. The generator furnishes power to drive each motor driving each piece of equipment i.e., crushers, conveyors, etc.

PROCESS DESCRIPTION

The quarried, stockpiled rock will be transferred from the raw material piles to the hopper by front-end loader. The hopper feeds the primary jaw crusher at the maximum rate of 300 TPH. Conveyors B, C, and D take the crushed rock from the primary crusher to the secondary crusher (all conveyors are in-line conveyors in that they all transport the same amount of rock in series, continuously). Conveyor F takes 300 TPH to the screen. 50 TPH is screen "fall through" which goes to the radial shaker (the device that stock piles the crushed rock by size) via conveyors O, M, and N. There are two additional rock streams from the screen i.e., conveyors J, K, and L take 200

TPH to the "base rock" pile, and the other stream of 50 TPH goes back to the secondary crusher (needs further crushing) via conveyors H and I. These operations produce 300 TPH of stockpiled crushed rock. The front-end loaders will then load the delivery trucks from the product piles.

The rock crusher is designed to be "road portable" i.e., specific width and length after break down. In order for the crusher unit to meet the operational and road requirements an unusual number of conveyors are necessary.

The facility will operate an estimated 2,500 hours/year, and produce an estimated 750,000 TPY of crushed limestone.

The fuel for the diesel engine will be stored in a 10,000 gallon, bottom fill tank located on-site.

EMISSIONS

The rock quarrying and crushing operations cause air emissions from the quarrying of rock, truck travel dust, erosion of raw and finished rock stockpiles, rock processing (crushing, screening, and conveying), and the products of combustion from the diesel engine. Emission quantities and calculations follow in the order mentioned above

Quarrying

The emissions from the operations necessary to get the rock out of the earth are considered negligible, or there are no reliable emissions factors to estimate their quantity (AP42, 1/95, Chapter 11.19.2).

Truck Travel, Stockpile Erosion, and Other

Trucks haul uncrushed rock from the quarry to the crusher site, and then export the finished crushed rock. Fugitive dust from truck traffic is calculated from AP-42 (9/98), Section 13.2.2, p.3. The truck road/miles emission factor equation is $E = [k(s/12)^a (W/3)^b]/(M/0.2)^c$ in tons of particulate per vehicle miles. All factors except the truck weight were obtained from the AP-42 document. The truck weight is from the Greenhill application data.

Parameter	Unit	Parameter Values	
		PM_{10}	TSP
E	Calculated Emission Factor (lb/VMT)	3.59	14.82
k	Empirical constant	2.6	10
s	Silt factor	9.0	9.0
W	Mean truck weight, loaded (ton)	80	80
M	Road surface moisture content	2.5	5.0
a	Empirical constant	0.8	0.8
b	Empirical constant	0.4	0.5
c	Empirical constant	0.3	0.4

Other fugitive dust emissions include particulate emissions from continuous drop operations of material to the stockpile from the radial stacker or batch drop operations of material to dump trucks

from the front-end loader, and wind erosion of stockpiles. Estimates of particulate emissions from batch drop/continuous operations are based on the emission factors of AP-42 (1/95), Section 13.2.4.3, Eqn. (1). Fugitive emissions from stockpiles due to wind erosion are based on the emission factor in AP-42 (9/91), Table 8.19.1-1 and that there are 230 "active" (workdays), 53 "inactive" (days of no activity and without precipitation) and 82 days of rain per year (National Weather Service's mean number of days of precipitation for the Tulsa area). Quantities are shown below.

PM_{10} Emissions Calculations for All Fugitive Sources

Process	Emission Factor	Parameters	Emissions	
			lb/hr	TPY
Loading : Track-hoe loader to feeder Piling: Radial stacker to product pile Loading: Loader to truck	0.007 lbs./ton/transfer	2.7×10^5 TPY x 3 transfers	9.0	11.25
Truck traffic (1):	PM_{10} factor 3.59lb/mile TSP factor 14.82 lb/mile	46,545 miles	20.05 PM_{10} 82.8 TSP	25.06 PM_{10} 103.59 TSP
Wind erosion of product and raw material stockpiles	6.3 lbs./acre/day (active) +	0.10 acres active	0.60	0.76
	1.7 lbs./acre/day (inactive)	1.0 inactive	1.7	2.13
		Total PM_{10} Fugitives→	31.35	39.2

(1) Road dust is calculated using 70% efficient water control

Rock Crushing

The rock processing machinery will use a dust suppression system (spray bar). The emissions from the crushing and conveying operations were determined using the manufacturer's efficiency rating of 90% and the emission factors from AP-42 (1/95) Table 11.19.2-2.

Rock Crushing Process, PM10 Emissions

Equipment/ Activity	Manufactured Date	Process Rate		Emission Factor (lbs/ton)	Control Efficiency	Emissions	
		TPH	TPY			lbs/hr	TPY
Feeder	1994	300	750,000	0.000016	0%	0.005	.006
Jaw Crusher	1994	300	750,000	0.00240	80%	0.14	0.18
Impact Crush.	1994	300	750,000	0.00240	80%	0.14	0.18
Screen	1994	300	750,000	0.015	90%	0.45	0.56
12 Conveyors	1994	300	750,000	0.0014	80%	5.04	6.36
Radial Stacker	1994	150	375,000	0.0014	90%	0.21	0.26
Radial stacker	1999	150	375,000	0.0014	90%	0.21	0.26
					Totals→	6.195	7.806

Engine Emissions

Diesel Combustion Emissions

Caterpillar Diesel Engine	bhp	Uncontrolled Emissions									
		NO_x		VOC		CO		SO_2		PM_{10}	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
3412	820	13.6	17.0	0.13	0.16	0.48	0.60	2.73	3.41	5.52	6.9

Emissions are based on 2,500 hours per year, 730 brake horsepower burning 40 gallons per hour of diesel fuel @ 138,000 BTU/gal. NO_x, CO and VOC emissions are based on Caterpillar data. PM is based on AP-42 (10/96), Table 3.3-1. The SO_2 emissions are based on the the diesel fuel containing a maximum of 0.6%w Sulfur.

Estimated engine emissions are based on continuous operations using Caterpillar's data (7.5 g/hp-hr NO_x, 0.3 g/hp-hr CO, 0.1 g/hp-hr THC). Brake-specific fuel consumption for the Caterpillar 3412 engine has been listed at 6,732 BTU/hp-hr for a fuel consumption of 40 gallons per hour. Emissions from the engine are discharged through a stack 8 inches in diameter, 10.0 feet above grade, at a rate of 4,588 ACFM at 878 °F. Moisture content of stack gases has been estimated at 10% while delivering rated power. Dry-basis pollutant concentrations are calculated for the engine at1,692 ppm NO_x, 96 ppm CO, and 53 ppm NMHC expressed as propane at rated power.

There will be a 10,000-gallon diesel storage tank at the plant that fuels the diesel engine. Due to the very low vapor pressure of diesel, VOC emissions from this tank are considered negligible.

Facility-wide Total Emissions

Source Type	NO_x		VOC		CO		SO_2		PM_{10}	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Process Equipment	---	---	---	---	---	---	---	---	6.20	7.81
Fugitive (1)	---	---	---	---	---	---	---	---	31.35	39.20
Diesel Engine	13.6	17.0	0.13	0.16	0.48	0.60	2.73	3.41	5.52	6.9
Totals →	**13.6**	**17.0**	**0.13**	**0.16**	**0.48**	**0.60**	**2.73**	**3.41**	**43.07**	**53.91**

(1) Fugitives include road travel, loading/unloading,and stockpile erosion

FEDERAL REGULATIONS

PSD 40 CFR Part 52 [Not Applicable]

Final total emissions are less than the threshold of 250 TPY of any single pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]

Subpart Kb applies to storage vessels constructed or modified after July 23, 1984, with a capacity of 10,567 gallons or more. As proposed, the diesel storage tank will have a capacity of 10,000 gallons. Therefore, this Subpart is not applicable.

NSPS, 40 CFR Part 60 [Applicable]

Subpart OOO (Non-Metallic Minerals Processing Plants) applies to non-metallic minerals processing operations if either (1) they are in a fixed location and have a capacity greater than 25 TPH, or (2) they are portable and have a capacity of 150 TPH or more. The following facilities at a non-metallic minerals processing plant that commenced construction, reconstruction, or modification after August 31, 1983, are affected by Subpart OOO: each crusher, grinding mill, bucket elevator, screening operation, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station. Excluded from the list of affected facilities are truck dumping and transfer points from belt conveyors to stockpiles. Subpart OOO specifies the following standards for fugitive emissions of particulate matter: no fugitive emissions discharge from any crusher greater than 15% opacity nor any discharge from any other affected facility greater than 10%. The capacity of this portable plant is given in the application as 300 TPH through the crusher and all but one conveyor and 300 TPH for the screen. Therefore, this facility is subject to Subpart OOO. The following pieces of equipment are specifically subject to Subpart OOO:

Equipment	Date of Manufacture	Capacity/ Throughput (TPH)	Opacity Limits
Hopper loading	1994	300	10 %
Primary crusher	1994	300	15 %
Secondary crusher	1994	300	15%
Screen	1994	300	10 %
Belt Conveyor(1)	1994	300	10 %
Radial Stackers	1994	300	10 %

(1) There are 12 conveyors, this is the maximum amount transported by any one of them.

NESHAP, 40 CFR Part 61 [Not Applicable]

There will be no emissions of the pollutants subject to regulation under 40 CFR 61 except benzene from the diesel storage tank. Subpart J affects process streams, which contain more than 10% benzene by weight. Benzene is present only in much lesser amounts in diesel.

NESHAP, 40 CFR Part 63 [Not Applicable]

There are no promulgated MACT standards which affect this facility. There is, however, a proposed standard, "Stationary Internal Combustion Engines," due in November, 2000, which may affect the diesel engine.

40 CFR Part 68

Chemical Accident Prevention Provisions [Not Applicable]

This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: *www.epa.gov/ceppo*

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Primary Standards are in Appendix E and Secondary Standards are in Appendix F of the Air Pollution Control Rules. At this time, all of Oklahoma is in attainment of these standards.

OAC 252:100-4 (New Source Performance Standards) [OOO Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 1997, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart AAA, and Appendix G.

OAC 252:100-5 (Registration, Emission Inventory, and Annual Fees)] [Applicable]
The owner or operator of any facility that is a source of air emissions shall submit a complete emission inventory annually on forms obtained from the Air Quality Division

OAC 252:100-6 (Permitting) [Applicable]
This Subchapter contains definitions, types of permits, and processing requirements pertaining to the Uniform Permitting Rules, OAC 252:2.

OAC 252: 100-7 (Permits for Minor Facilities) [Applicable]
This site meets the conditions for a minor permit because there is no emission of any regulated pollutant of 100 TPY or more. As such, BACT consideration, modeling, and public review are not required

OAC 252:100-8 (Permits for Part 70 Sources) [Not Applicable]
In addition to the permitting criteria under Subchapter 7, a source may require permitting under this Subchapter if it has emissions of HAPs in excess of 10 TPY for any one HAP or in excess of 25 TPY for any combination of HAPs. The facility has no HAP emissions and is not subject to this rule.

OAC 252:100-9 (Excess Emission and Malfunction Reporting) [Applicable]
This Subchapter requires an owner or operator of a regulated facility to report all excess emissions from an air pollution source caused by malfunction, shutdown, start-up, or regularly scheduled maintenance that is in violation of the applicable air pollution control rule.
Standard conditions in the permit assure compliance with this requirement.

OAC 252:100-13 (Prohibition of Open Burning) [Applicable]
This Subchapter states that no person shall cause, suffer, allow, or permit open burning of refuse and other combustible material except as may be allowed in compliance with OAC 252:100-13-7. Section 100-13-7 permits open burning as specified in the paragraphs set forth if no public nuisance is or will be created and if the burning is not prohibited by, and is conducted in compliance with, other applicable laws and the ordinances, rules, and orders of governmental

entities having jurisdiction, including air pollution control ordinances, rules, and orders. Specific condition 8 allows open burning only by separate approval of the Air Quality Division.

OAC 252:100-19 (Particulate Matter From Fuel-burning Equipment) [Applicable]
Subchapter 19 specifies a PM emission limit of 0.6 lb/MMBTU for fuel-burning equipment for the size of this facility/diesel engine (5.50 MMBTUH). The PM from this engine at rated power is 0.29 lb/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
This Subchapter states that no person shall allow the discharge of any fumes, aerosol, mist, gas, smoke, vapor, particulate matter, or any combination thereof exhibiting greater than 20% opacity except for short term occurrences, which consist of not more than one six-minute (6) period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24-hour period. In neither case shall the average of any six-minute (6) period exceed 60% opacity. NSPS Subpart OOO is more restrictive and takes precedence over all process equipment except belt conveyors which have maximum capacities less than 300 TPH.

OAC 252:100-27 (Particulate Matter from Industrial Processes) [Applicable]
This Subchapter applies to any process, operation, or activity except fuel-burning equipment. The regulation specifies an emission limitation of 58.2 lb/hr of particulate matter based on the proposed process weight rate of 300 TPH. The emissions rate of this facility is 20.89 lb/hr, which is in compliance.

OAC 252:100-29 (Fugitive Dust) [Applicable]
This Subchapter prohibits the handling, transportation, or disposition of any substance or material which is likely to be scattered by the air or wind, or is susceptible to being wind-borne, that would be classified as air pollution, without taking reasonable precautions or measures to minimize atmospheric pollution. Subchapter 29 further prohibits discharge of visible fugitive dust beyond the property line on which the emissions originated in such a manner as to damage or interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or to interfere with the maintenance of air quality standards.

OAC 252:100-31 (Sulfur Compounds) [Applicable]
Subchapter 31 prohibits discharge into the atmosphere of SO_2 in excess of 0.8 lb per million BTU of heat input from fuel-burning equipment using liquid fuels. This engine is calculated to exhaust 0.50 lb/MMBTU of SO_2 at rated power burning 40 GPH (containing a maximum of 0.6%w S) at 138,000 BTU/gal. The facility is in compliance.

OAC 252:100-37 (Volatile Organic Compounds) [Applicable]
This Subchapter affects volatile organic compound (VOC) storage tanks with a capacity between 400 and 40,000 gallons storing a liquid with a vapor pressure of 1.5 psia or more. Since only diesel (vapor pressure < 0.01 psia) is to be stored at this facility, the diesel storage tank is not subject to this Subchapter.
Part 7 requires fuel-burning and refuse-burning equipment to be operated to minimize emissions of VOC. The diesel engine is subject to this requirement.

OAC 252:100-41 (Hazardous and Toxic Air Contaminants) [Not Applicable]
No toxic emissions above de minimis levels are expected.

OAC 252:100-43 (Specific Sampling and Testing Methods) [Applicable]
Part 1 specifies that all required testing must be conducted by methods approved by the Executive Director under the direction of qualified personnel.
All required tests shall be made and the results calculated in accordance with test procedures described or referenced in the permit and approved by Air Quality.
Part 3 specifies specific methods to be used to determine leakage from gasoline trucks and associated vapor control systems.
This facility does not include gasoline tank truck loading facilities.

In summary of Oklahoma OAC Rules, the following are not applicable to this facility:

OAC 252:100-11	Alternative Emissions Reduction	not requested
OAC 252:100-15	Mobile Sources	not in source category
OAC 252:100-17	Incinerators	not type of emission unit
OAC 252:100-21	PM from Wood waste Burning	not type of emission unit
OAC 252:100-23	Cotton Gins	not type of emission unit
OAC 252:100-24	Grain Elevators	not in source category
OAC 252:100-33	Nitrogen Oxides	exempted by size
OAC 252:100-35	Carbon Monoxide	not in source category
OAC 252:100-37	Part 5 - Control of Organic Solvents	exempted by size
OAC 252:100-39	Nonattainment Areas	not in area category
OAC 252:100-41	Part 3 - NESHAP	not in source category
OAC 252:100-43	Part 3 - Specific Methods	not in source category

TIER CLASSIFICATION AND PUBLIC REVIEW

This application has been classified as Tier I based on the application data received for a minor source construction permit. The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant has provided legal notice to those that do own the property. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at *www.deq.state.ok.us.*

INSPECTION

A site inspection will be conducted prior to issuing an operating permit. The inspection will confirm construction permit Specific Conditions, review test results, and check that required records are being maintained.

FEES PAID

Construction and operating permit fees totaling $1500 have been paid.

SUMMARY

The source has demonstrated the ability to comply with the requirements of the applicable air pollution control rules and regulations. Ambient air quality standards are not threatened at the site. There are no active Compliance or Enforcement Air Quality issues concerning this facility. Issuance of the construction permit is recommended.

PERMIT TO CONSTRUCT
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

Greenhill Materials
Quarry and Rock Crusher

Permit No. 99-034-C

The permittee is authorized to construct in conformity with the specifications submitted to Air Quality on August 10, 1999. The Evaluation Memorandum, dated October 4, 1999, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Commencing construction and operations under this permit constitutes acceptance of, and consent to, the conditions contained herein:

1. Points of emission and emission limitations:

Equipment Activity	Emissions		NSPS Applicable
	lb/hr	TPY	Yes/No
Feeder	0.005	.006	Y
Jaw Crusher	0.14	0.18	Y
Impact Crusher	0.14	0.18	Y
Screen	0.45	0.56	Y
12 Conveyors	5.04	6.36	Y
Radial Stacker	0.21	0.26	Y
Radial Stacker	0.21	0.26	Y
Fugitives	31.35	39.20	N

Equip.	Caterpillar	bhp	Uncontrolled Emissions									
			NO_x		VOC		CO		SO_2		PM_{10}	
			lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
ENG	3412	820	13.6	17.0	0.13	0.16	0.48	0.60	2.73	3.41	5.52	6.9

2. Upon issuance of an operating permit, the permittee shall be authorized to operate this facility with process limitations of 2,500 hours/year at a process weight rate up to but not to exceed 300 TPH (daily"working day" average), and 750,000 TPY.

3. Equipment/activities listed in Specific Condition #1 subject to NSPS Subpart OOO shall comply with the following opacity standards:

Hopper loading:	10 %
Primary crusher:	15 %
Second crusher:	15%
Screen:	10 %
Belt Conveyors:	10 %
Radial Stackers:	10 %

4. The permittee shall conduct opacity testing by Reference Method 9 for the primary crusher, each screen, and each transfer point of the conveyors (all as near as practical to equipment design capacity) within 180 days after initial startup, and submit the test report to Air Quality as part of the operating permit application.

5. The Caterpillar 3412 engine shall only use diesel fuel with a maximum sulfur content of 0.6%w.

6. Reasonable precautions shall be taken to minimize fugitive dust emissions from loading and unloading operations, roads, and stockpiles. These precautions shall include, but not be limited to:

a) Use of water or chemicals on roads, stockpiles, and materials during transfer operations.
b) Application of other coatings or coverings to substances susceptible to becoming air-borne or wind-borne.
c) Covering or wetting material in trucks.
d) Planting and maintaining vegetation coverings or windbreaks.
e) Locate stockpiles as to provide minimum exposure to high winds and avoid open spaces in line with neighboring homes and businesses.
f) All crusher spray bars should be fully operational when crusher is operating

7. The permittee may relocate any portable sources covered under this permit by obtaining a relocation permit in accordance with OAC 252:100-7-17 prior to relocating the portable source to another site. Relocating of such a source without a relocation permit shall void this operating permit for that source and subject the new facility to stationary source permit requirements.

8. Open burning may be allowed at this facility only by separate approval of the AQD, and only when performed in accordance with OAC 252:100-13.

9. An engine serial number or other acceptable form of permanent (non-removable) identification shall be on the engine.

10. At least once per calendar quarter, the permittee shall conduct tests of NO_x and CO concentrations in the exhaust gases from the engine. Testing is required for any engine which runs for more than 220 hours during that calendar quarter. Testing shall be conducted using portable engine analyzers or an equivalent method approved by Air Quality. When four consecutive quarterly tests show the engine to be in compliance with the emissions limitations shown in the permit, then the testing frequency may be reduced to semi-annual testing. Likewise, when any following two consecutive semi-annual tests show compliance, the testing frequency may be reduced to annual testing. Upon any showing of non-compliance with emissions limitation, the testing frequency shall revert to quarterly. Reduced testing frequency does not apply to engines with catalytic converters.

11. Replacement (including temporary periods of up to six months for maintenance, etc.) of the internal combustion engine(s) shown in this permit with an engine(s) of lesser or equal emissions of each pollutant is authorized under the following conditions:

a. The permittee shall notify AQD in writing not later than 7 days in advance of the startup of replacement engines/turbines. Said notice shall identify the equipment removed and shall include the new engine/turbine make, model, and horsepower; date of the change, and any change in emissions.

b. Emissions limitations on a ppm basis shall be calculated as follows:

$$\text{Stack Flow (SCFH)} = \frac{\text{ACFM} * 60 \text{ min/hr} * 528 \text{ °R}}{(460 + \text{stack temp, °F})}$$

Moisture Content = 10%

$$NO_x \text{ ppm} = \frac{NO_x \text{ emissions (lb/hr)} * 380 \text{ SCF/lb-mole}}{30 \text{ lb/lb-mole} * \text{stack flow(SCFH)} * (1 - \text{moisture content})} * 10^6$$

$$\text{CO ppm} = \frac{\text{CO emissions (lb/hr)} * 380 \text{ SCF/lb-mole}}{28 \text{ lb/lb-mole} * \text{stack flow(SCFH)} * (1 - \text{moisture content})} * 10^6$$

c. Quarterly emissions tests for the replacement engine shall be conducted to confirm continued compliance with NO_x and CO concentration limitations. Quarterly testing, recordkeeping, and excess emission reporting procedures shall be the same for the replacement engine as for the original engine. A copy of the first quarter testing shall be provided to AQD within 30 days of start-up of each replacement engine. The test report shall include the engine/turbine fuel usage, stack flow (ACFM), stack temperature (°F), stack height (feet), stack diameter (inches), and pollutant emission rates (g/hp-hr, lb/hr, and TPY) at maximum rated horsepower for the altitude/location.

12. When periodic testing of engine exhausts shows concentrations in excess of those shown below and in excess of the lb/hr limits in Specific Condition Number 1, the owner or operator shall comply with the provisions of OAC 252:100-9.

Engine	NO_x ppm	CO ppm
Caterpillar Model G3412	1,692	96

13. The permittee shall keep records of operations as listed below. These records shall be retained on location or at a local field office for a period of at least two years following dates of recording, and shall be made available to regulatory personnel upon request.

(a) Throughput of the crusher (daily and cumulative annual).
(b) Hours of operation (daily and cumulative annual)
(c) Certification of sulfur content for each fuel delivery.
(d) Daily use of water used for PM control.
(e) Periodic engine testing for NO_x and CO.

FAC 3421 99-034-0

Greenhill Materials Co. LC

(918) 266-6861
Fax (918) 266-6482
Post Office Box 10
Catoosa, OK 74015-0010

5 December 2001

Air Quality Division
State of Oklahoma
Department of Environmental Quality
Attn: Mr. Jack Fly
5051-A South 129th E. Ave.
Tulsa, OK

Dear Mr. Fly:

Please find attached the Landowner Notification Affidavit, Form 884 Permit Application and a check for $500.00 as we apply for an operational status air quality permit.

The only changes from the construction permit application is the replacement of the 1994 Jaw Crusher with a 2001 Impact Crusher at the primary and the elimination of the Caterpillar Diesel powered generator. The need for the generator was eliminated due to the installation of AEP/PSO supplied electricity.

I thank you for your assistance in this matter. If you have any questions or advice, please feel free to call me. Thank you.

Sincerely,
Greenhill Materials

David M. Cooper

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

A - Simmons 12-05-a

1	COMPANY INFORMATION	Name	Greenhill Materials				
Mailing Address	P.O. Box 10						
City	Catoosa			State	OK	Zip	74015

2	APPLICATION TYPE (check one)								
	Applicability Determination		Construction	X	Operation		Modification		Relocation
Est. Date of Construction/Modification Start					Completion				
Operational Start-up Date									

3	CONFIDENTIAL INFORMATION INCLUDED		YES		X	NO

4	TIER CLASSIFICATION	X	Tier I		Tier II		Tier III		N/A AD only
FACILITY TYPE		X	Minor				Major		

5	FEES SUBMITTED	$500.00	CHECK #	1123	DATE	4 Dec 2001

6	TECHNICAL CONTACT	Name	David M. Cooper		
Phone	(918) 266-6861			Fax	(918) 226-4466
Company Name	Sherwood Construction Co. Inc.				
Street Address	P.O. Box 10 4716 North 193rd East Ave.				
City	Catoosa			State	OK	Zip	74015

7	FACILITY INFORMATION	Name	Greenhill Materials				
Description	Crushed Limestone Facility & Quarry						
SIC Code(s)	1422						
Contact Person	Shawn Roberts			Title	Superintendent	Phone	(918) 274-6560
Legal Description	Section	10	Township	20 N	Range	14 E	
Physical Address or Driving Directions	14701 East Highway 266						
City or Nearest Town	Catoosa			Zip	OK	County	Rogers

8	Describe Any Residence, Park, School, etc. within ¼ mile	None

9	LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
99-034-C	

10	APPLICATION CERTIFICATION			
This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.				
Responsible Official (signature)				
Responsible Official (typed)	John Curtis		Date	5 December 2001
Responsible Official Title	Manager		Phone	(918) 266-6861

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applications in which the applicant does not own all the land subject to the application must notify the owner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:002-15-30(b)(3).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)		
	My application does not involve any land		My application involves only land owned by me (or applicant business)

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	X	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
X	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		
MY RIGHT TO USE THIS LAND is by:			
X	Lease		Easement		Other, Specify	

LANDOWNER AFFIDAVIT CERTIFICATION			
I, as the applicant or an authorized representative of the applicant, hereby certify that notice to the landowner(s) about the permit application for the facility described below was provided per Option A or B above.			
Company Name	Sherwood Construction Co. Inc.	Facility Name	Greenhill Materials
Facility Address or Legal Description	14701 East Highway 266 Catoosa, OK 74015		
Responsible Official (signature)		Date Signed	5 December 2001
Responsible Official (typed)	John Curtis	Title	Manager

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name) ~~Cathy Pennington~~ Greenhill Properties LLC

(Applicant name) ~~Sherwood Construction Co. Inc~~ has filed a permit application with the Oklahoma Department of Environmental Quality for (Name) Greenhill Materials facility.

This application involves the land owned by you located at:

Address or Legal Description: 14701 East Highway 266

Signed: [signature] Manager Date: 12/4/01

1123

GREENHILL MATERIALS CO., L.C.
P.O. BOX 10 PH. 918-266-6861
CATOOSA, OK 74015

BANK OF AMERICA
08121 OK

39-1-1030

DATE December 4, 2001

PAY THE SUM 500 DOLS 00 CTS DOLLARS $500.00

TO THE ORDER OF Oklahoma Dept. of Environmental Quality

Connie Larson MP

⑈001123⑈ ⑆103000017⑆ 00286572001 5⑈

© DELUXE DOUBLE VOUCHER

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

GREENHILL MATERIALS CO., L.C.

DELUXE BUSINESS FORMS 1+800-328-0304
DELUXE - FORM WVCB-3 V-4

INVOICE DATE	INVOICE NO.	DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS DISCOUNT	DEDUCTIONS FREIGHT	NET AMOUNT
		Air quality Permit - Operating				
		100 510 A50200GM DC				
		GREENHILL MATERIALS				
		99-034-O				
		REC 5452 12-05-01				

V-4

APPLICATION/PERMIT ISSUANCE EVENT TRACKING
AIR QUALITY DIVISION

99-034-0

FAC 3421

~~A. SIMMONS~~ ~~12-05-01~~

Company Name: Greenhill Mtls Sherwood Const

Facility Name: Tulsa Limestone Quarry Rock Crusher Loadow Area

City: Tulsa (Nuarati) Catoosa County: ~~Tulsa~~ RODGERS Tulsa JF

TO P. FIELDER 2-07-02

Permit Number: 990340 Engineer: JFly

Steps	Date	Initials
Fee Received Amount: $500 Receipt No.	12/05/01	JF
Facility Type / RDI TE / 15 Title V ___ Synthetic-minor X Non Title V ___ Application Type: ___ Applicability Determination ___ Construction X ___ Operation ___ Title V ___ GOP ___ Modification ___ Relocation ___ Temporary ___ PBR	12/05/01	JF
Confidential Information Included: X No ___ Yes (Requires a separate file)	12/05/01	JF
Tier Classification: X I II III N/A	12/05/01	JF
Tracking Log Entry and Distributed to Engineer	12/05/01	JF
Administrative Review (Start date is the date application received by AQD)		
• Fee Assessment: Total Due $500 Total Received $500	12/05/01	JF
• Landowner Affidavit Received	12/05/01	JF
• Filing Notice Received (Only Tier II & III)		
• EPA Transmittal Form Received (Only Title V)		
• Notice of Deficiency		
• Response		
• Completeness Letter	12/06/01	JF
Technical Review (Start date)	1-29-02	JF
• Notice of Deficiency		
• Pending Facility Action (PFA)		
• Response 1 ack to Tech Review Yes or No		
• Notice of Deficiency 2 / PFA 2		
• Response 2		
Draft Permit Prepared by Engineer	1-30-02	JF
Enforcement Review / Coordination		
Technical Review - Supervisor -		
Draft Permit Prepared / Letter Typing		
Final Approval by Permit Chief Engineer (Tier I or AD)	2/8/02	DFL
Draft Permit Public Notice (Only Tier II & III) Approval by Director AQD		
• Distribution to: Affected State, EPA, Applicant		
• Draft Permit Notice Received		
• Public Comment Period Starts		
• Public Meeting Held		
Proposed Permit Public Notice (Only Tier III) Approval by Director AQD		
• Distribution to: Affected State, EPA, Applicant		
• Proposed Permit Notice Received		
• Public Comment Period Starts		
• Response to Comments Mailed		
Final Approval by Permit Chief Engineer (AD's, Tier I, Tier II		
Final Approval by Director AQD		
Final Approval by Executive Director DEQ (Only Tier III)		
Final Processing		
• Distribution to: Applicant, ECLS Office, EPA, Internal	2-8-02	CW
• Entered in Permit Archive		
• File Created in File Room		

DEQ Form # 100-805

Revised May 9, 2000

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

February 8, 2002

Mr. Dave Cooper, Environmental
Sherwood Construction Co., Inc.
P.O. Box 10
Catoosa, OK 74015-0010

Re: Evaluation of Permit Application No. **99-034-O**
Greenhill Materials
Rogers County Limestone Quarry, Pug Mixer, and Rock Crusher

Dear Mr. Cooper:

Enclosed is the permit authorizing the operation of the referenced facility. Please note that this permit is issued subject to certain standard and specific conditions which are attached.

Thank you for your cooperation in this matter. If I may be of further service, or you have any questions about this permit, please call me at (918) 461-7421.

Sincerely,

Jack Fly
Permit Writer
AIR QUALITY DIVISION

Enclosure

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Date FEB 08 2002 Permit No. 99-034-O

Greenhill Materials

having complied with the requirements of the law, is hereby granted permission to operate a lime stone quarry, and a rock crushing plant in Catoosa, Rogers County, Oklahoma,

subject to the following conditions attached:

[X] Standard Conditions

[X] Specific Conditions

Chief Engineer, Air Quality Division

DEQ Form 885
Revised 7/93

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **February 8, 2002**

TO: Dawson Lasseter, P.E., Chief Engineer, Permits Section

THROUGH: Phillip Fielder, P.E., New Source Permits Unit

THROUGH: Peer Review

FROM: Jack Fly, Regional Office at Tulsa

SUBJECT: Evaluation of Permit Application No. **99-034-O**
Greenhill Materials (GHM)
Rogers County Quarry and Portable Rock Crushing Plant
Catoosa, Rogers County
Driving Directions: North on Hwy No. 169 to 46 St North, East on 46 St for about 2 miles to RR Tracks then hard left and there you are.

INTRODUCTION

The applicant has applied for an operating permit for a quarrying and limestone crushing operation (SIC 1422). This new facility was built on construction permit 99-034-C. The facility was built as described in the construction permit except: (1) the rock crusher's electric motor driver is powered by purchased power in place of the diesel engine driven generator, and (2) a pug mixer was installed which was not on the construction permit. The diesel engine driven electric generator is no longer part of the rock crusher and will either be removed or put to another use under a permit modification. The pug mixer is included in this operating permit.

This facility provides crushed limestone for the construction, road-building, and agricultural industries. Crushing and screening prepare the quarried rock to specified sizes. Even though the rock-crushing machine is capable of being highway portable, GHM does not have any immediate plans to relocate the crusher.

EQUIPMENT

The rock crusher consists of a hopper/primary crusher, secondary crusher, screen, twelve conveyors, and two radial stackers. All moving parts of the crusher are driven by electric motors which requires a total power consumption of 545 kW.

Rock Crusher
MFG.: Kolberg
Model: 3850
S/N 403073-403074
Max Rate: 5500 TPH

The portable pug mixer is driven by a 95 hp John Deere diesel engine. The unit consists of one hopper, one conveyor, and a mixer.

Pug Mixer
MFG.: PorTec
Model: Kolberg Model 52
S/N 002-52-93
Max Rate: 300 TPH

PROCESS DESCRIPTION

This facility does rock quarrying from virgin earth, rock crushing/sizing, pug mixing, and the necessary rock transporting. The quarried rock is trucked from the blasting area to the crusher area and stockpiled.

The stockpiled quarried rock is dumped into the crusher hopper using a diesel-powered front-end loader. The hopper feeds the primary jaw crusher at the maximum rate of 300 TPH. Conveyors B, C, and D take the crushed rock from the primary crusher to the secondary crusher (all conveyors are in-line conveyors in that they all transport the same amount of rock in series, continuously). Conveyor F takes 300 TPH to the screen. 50 TPH is screen "fall through" which goes to the radial shaker (the device that stock piles the crushed rock by size) via conveyors O, M, and N. There are two additional rock streams from the screen i.e., conveyors J, K, and L take 200 TPH to the "base rock" pile, and the other stream of 50 TPH goes back to the secondary crusher (needs further crushing) via conveyors H and I. These operations produce 300 TPH of stockpiled crushed rock. The front-end loaders will then load the delivery trucks from the desired sized rock piles.

On customer demand, some of the crushed rock is run through the pug mixer. The portable Pug Mixer is nothing more than a diesel engine driven mixing operation where crushed rock is dumped into a hopper by a front-end loader. The rock is then conveyed to the mixer which contains the required amount of water. The purpose for this operation is to meet customer moisture specifications.

The rock crusher is designed to be "road portable" i.e., specific width and length after break down. In order for the crusher unit to meet the operational and road requirements an unusual number of conveyors are necessary.

The facility operates an estimated 2,500 hours/year, and produce an estimated 750,000 TPY of crushed limestone. The pug mixer will process an estimated 500,000 TPY of the previously crushed rock.

The fuel for the diesel engines is stored in a 10,000 gallon, bottom fill tank located on-site.

EMISSIONS

The facility emissions are particles from blasting; wind driven particles from roads during rock transportation and from rock piles; rock crushing (which includes conveying within the crusher, screening, and stock piling); and pug mixer operations. Some other emissions are the products of combustion from the diesel engine which drives the pug mixer. The analysis of the facility emission is contained in the following paragraphs.

Quarrying

The emissions from the operations necessary to get the rock out of the earth are considered negligible or there are no reliable emissions factors to estimate their quantity (AP42, 1/95, Chapter 11.19.2).

Truck Travel, Stockpile Erosion, and Other

Trucks haul uncrushed rock from the quarry to the crusher site and then export the finished crushed rock. Fugitive dust from truck traffic is calculated from AP-42 (9/98), Section 13.2.2, p.3. The truck road/miles emission factor equation is $E = [k(s/12)^a (W/3)^b]/(M/0.2)^c$ in tons of particulate per vehicle miles. All factors except the truck weight were obtained from the AP-42 document. The truck weight is from the Greenhill application data.

Parameter	Unit	Parameter Values	
		PM_{10}	TSP
E	Calculated Emission Factor (lb/VMT)	3.59	14.82
k	Empirical constant	2.6	10
s	Silt factor	9.0	9.0
W	Mean truck weight, loaded (ton)	80	80
M	Road surface moisture content	2.5	5.0
a	Empirical constant	0.8	0.8
b	Empirical constant	0.4	0.5
c	Empirical constant	0.3	0.4

Other fugitive dust emissions include particulate emissions from continuous drop operations of material to the stockpile from the radial stacker or batch drop operations of material to dump trucks from the front-end loader, and wind erosion of stockpiles. Estimates of particulate emissions from batch drop/continuous operations are based on the emission factors of AP-42 (1/95), Section 13.2.4.3, Eqn. (1). Fugitive emissions from stockpiles due to wind erosion are based on the emission factor in AP-42 (9/91), Table 8.19.1-1 and that there are 230 "active" (workdays), 53 "inactive" (days of no activity and without precipitation) and 82 days of rain per year (National Weather Service's mean number of days of precipitation for the Tulsa area). Quantities are shown following.

PM_{10} Emissions Calculations for Quarry Fugitive Sources[2]

Process	Emission Factor	Parameters	Emissions lb/hr	Emissions TPY
Loading: Track-hoe loader to feeder	PM_{10} factor 0.007 lbs./ton/transfer	2.7×10^5 TPY x 3 transfers	9.0	11.25
Piling: Radial stacker to product pile				
Loading: Loader to truck				
Truck traffic[1]:	PM_{10} factor 3.59lb/mile TSP factor 14.82 lb/mile	46,545 miles	20.05 PM_{10} 82.8 TSP	25.06 PM_{10} 103.59 TSP
Wind erosion of product and raw material stockpiles	6.3 lbs./acre/day (active) + 1.7 lbs./acre/day (inactive)	0.10 acres active 1.0 inactive	0.60 1.7	0.76 2.13
		Total PM_{10} Fugitives→	31.35	39.2

(1) Road dust is calculated using 70% efficient water control. (2) Does not include pug mixer or rock crusher emissions.

Rock Crushing

The rock processing machinery uses a dust suppression system (spray bar). The emissions from the crushing and conveying operations were determined using the manufacturer's efficiency rating of 90% and the emission factors from AP-42 (1/95) Table 11.19.2-2.

Rock Crushing Process, PM_{10} Emissions

Equipment/ Activity	Manufactured Date	Process Rate TPH	Process Rate TPY	Emission Factor (lbs/ton)	Control Efficiency	Emissions lbs/hr	Emissions TPY
Feeder	1994	300	750,000	0.000016	0%	0.005	.006
Jaw Crusher	1994	300	750,000	0.00240	80%	0.14	0.18
Impact Crush.	1994	300	750,000	0.00240	80%	0.14	0.18
Screen	1994	300	750,000	0.015	90%	0.45	0.56
12 Conveyors	1994	300	750,000	0.0014	80%	5.04	6.36
Radial Stacker	1994	150	375,000	0.0014	90%	0.21	0.26
Radial stacker	1999	150	375,000	0.0014	90%	0.21	0.26
					Totals→	6.195	7.806

Pug Mixer

Pug Mixer, PM_{10} Emissions[1]

Equipment/ Activity	Manufactured Date	Process Rate		Emission Factor (lbs/ton)	Control Efficiency	Emissions	
		TPH	TPY			lbs/hr	TPY
Feeder	1994	300	550,000	0.000016	0%	0.005	0.004
1 Conveyors	1994	300	750,000	0.0014	80%	0.42	0.53
Totals						0.425	0.534

(1) Excluding PM10 from the Pug Mixer engine.

Engine Emissions

The engine emissions are based on 2,500 hours per year, 95 brake horsepower burning 4.7 gallons per hour of diesel fuel @ 138,000 BTU/gal. NO_x, CO, and VOC emissions are based on engine manufacturer data. PM_{10} is based on AP-42 (10/96), Table 3.3-1. The SO_2 emissions are based on the diesel fuel containing a maximum of 0.6%w Sulfur.

The emission factors for the John Deere 95 hp diesel engine are (7.5 g/hp-hr NO_x, 0.3 g/hp-hr CO, 0.1 g/hp-hr THC). Brake-specific fuel consumption for the J.Deere 4039T engine has been listed at 6,732 BTU/hp-hr for a fuel consumption of 4.7 gallons per hour.

There is a 10,000-gallon diesel storage tank at the plant that fuels the diesel engine. Due to the very low vapor pressure of diesel, VOC emissions from this tank are considered negligible.

The following table shows the results of the emissions calculations.

Diesel Combustion Emissions

Diesel Engine Data	bhp	Uncontrolled Emissions									
		NO_x		VOC		CO		SO_2		PM_{10}	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
J.Deere/4039T(E-2)	95	1.58	1.97	0.02	0.02	0.06	0.07	0.32	0.40	0.64	0.80
Totals		1.58	1.97	0/02	0.02	0.06	0.07	0.32	0.40	0.64	0.80

Facility-wide Total Emissions

Source Type	NO_x		VOC		CO		SO_2		PM_{10}	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Process Equipment	---	---	---	---	---	---	---	---	6.20	7.81
Fugitive[1]	---	---	---	---	---	---	---	---	31.35	39.20
Diesel Engines	1.58	1.97	0.02	0.02	0.06	0.07	0.32	0.40	0.64	0.80
Totals →	**1.58**	**1.97**	**0.02**	**0.02**	**0.06**	**0.07**	**0.32**	**0.40**	**38.19**	**47.81**

(1) Fugitives include road travel, loading/unloading, and stockpile erosion

FEDERAL REGULATIONS

PSD 40 CFR Part 52 [Not Applicable]

PSD does not apply. Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]

Subpart Kb applies to storage vessels constructed or modified after July 23, 1984, with a capacity of 10,567 gallons or more. As proposed, the diesel storage tank will have a capacity of 10,000 gallons. Therefore, this Subpart is not applicable.

Subpart OOO (Non-Metallic Minerals Processing Plants) applies to non-metallic minerals processing operations if either (1) they are in a fixed location and have a capacity greater than 25 TPH, or (2) they are portable and have a capacity of 150 TPH or more. The following facilities at a non-metallic minerals processing plant that commenced construction, reconstruction, or modification after August 31, 1983, are affected by Subpart OOO: each crusher, grinding mill, bucket elevator, screening operation, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station. Excluded from the list of affected facilities are truck dumping and transfer points from belt conveyors to stockpiles. Parts of the crusher and the pug mixer are subject to this Subpart and shown in the following table. Subpart OOO specifies the following standards for fugitive emissions of particulate matter: no fugitive emissions discharge from any crusher greater than 15% opacity nor any discharge from any other affected facility greater than 10%. The capacity of this portable plant is given in the application as 300 TPH through the crusher and all but one conveyor and 300 TPH for the screen. Therefore, this facility is subject to Subpart OOO. The following pieces of equipment are specifically subject to Subpart OOO:

Equipment	Date of Manufacture	Capacity/ Throughput (TPH)	Affected Equipment	Opacity Limits
Hopper loading	1994	300	C, P	10 %
Primary crusher	1994	300	C	15 %
Secondary crusher	1994	300	C	15%
Screen	1994	300	C	10 %
Belt Conveyor(1)	1994	300	C, P	10 %
Radial Stackers	1994	300	C	10 %

(1) There are 12 conveyors, this is the maximum amount transported by any one of them.

NESHAP, 40 CFR 61 [Not Applicable]

There are no emissions of any of the pollutants subject to 40 CFR 61 (asbestos, benzene, beryllium, coke oven emissions, inorganic arsenic, mercury, radionuclides, and vinyl chloride).

NESHAP, 40 CFR Part 63 [Not Applicable]

There are no promulgated MACT standards which affect this facility. There is, however, a proposed standard, "Stationary Internal Combustion Engines," due in May, 2002, which may affect the diesel engine. DEQ reserves the right to re-open this permit if GHM becomes an affected facility.

Chemical Accident Prevention Provisions, 40 CFR 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Primary Standards are in Appendix E and Secondary Standards are in Appendix F of the Air Pollution Control Rules. At this time, all of Oklahoma is in attainment of these standards.

OAC 252:100-4 (New Source Performance Standards) [**Not** Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2000, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G.

OAC 252:100-5 (Registration, Emission Inventory, and Annual Fees)] [Applicable]
The owner or operator of any facility that is a source of air emissions shall submit a complete emission inventory annually on forms obtained from the Air Quality Division

OAC 252: 100-7 (Permits for Minor Facilities) [Applicable]
This site meets the conditions for a minor permit because there is no emission of any regulated pollutant of 100 TPY or more. As such, BACT consideration, modeling, and public review are not required

OAC 252:100-8 (Permits for Part 70 Sources) [Not Applicable]
In addition to the permitting criteria under Subchapter 7, a source may require permitting under this Subchapter if it has emissions of HAPs in excess of 10 TPY for any one HAP or in excess of 25 TPY for any combination of HAPs. The facility has no HAP emissions and is not subject to this rule.

OAC 252:100-9 (Excess Emission Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as practical during normal office hours and no later than **4:30 pm** the next working day following the malfunction or release. Further written notice containing specific details of the incident shall be submitted within ten (10) business days.

OAC 252:100-13 (Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this Subchapter.

OAC 252:100-19 (Particulate Matter) [Applicable]
19-4 specifies a PM emission limit of 0.6 lb/MMBTU for fuel-burning equipment. AP-42 specifies an emission factor of 0.29 lb PM_{10}/MMBTU for diesel engines. The engine is in compliance.
19-12 applies to any process, operation, or activity except fuel-burning equipment. The regulation specifies an emission limitation of 58.2 lb/hr of particulate matter based on the proposed process weight rate of 300 TPH. The emissions rate for this entire facility is 20.89 lb/hr, therefore, each piece of processing equipment is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
This Subchapter states that no person shall allow the discharge of any fumes, aerosol, mist, gas, smoke, vapor, particulate matter, or any combination thereof exhibiting greater than 20% opacity except for short term occurrences, which consist of not more than one six-minute (6) period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24-hour period. In neither case shall the average of any six-minute (6) period exceed 60% opacity. NSPS Subpart OOO is more restrictive and takes precedence over all process equipment except belt conveyors which have maximum capacities less than 300 TPH.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. Under normal operating conditions, this facility will not cause a problem in this area; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100-31 (Sulfur Compounds) [Applicable]
Subchapter 31 prohibits discharge into the atmosphere of SO_2 in excess of 0.8 lb per million BTU of heat input from fuel-burning equipment using liquid fuels. The engine burns fuel containing a maximum of 0.6%w S. AP-42 has an emission factor for SO_2 of 0.31 lb/MMBTU of SO_2 at rated power. The engine is in compliance.

OAC 252:100-37 (Volatile Organic Compounds) [Applicable]
This Subchapter affects volatile organic compound (VOC) storage tanks with a capacity between 400 and 40,000 gallons storing a liquid with a vapor pressure of 1.5 psia or more. Since only diesel (vapor pressure < 0.01 psia) is to be stored at this facility, the diesel storage tank is not subject to this Subchapter.
Part 7 requires fuel-burning and refuse-burning equipment to be operated to minimize emissions of VOC. The diesel engine is subject to this requirement.

OAC 252:100-41 (Hazardous and Toxic Air Contaminants) [Not Applicable]
No toxic emissions above de minimis levels are expected.

OAC 252:100-43 (Specific Sampling and Testing Methods) [Applicable]
Part 1 specifies that all required testing must be conducted by methods approved by the Executive Director under the direction of qualified personnel. All required tests shall be made and the results calculated in accordance with test procedures described or referenced in the permit and approved by Air Quality.
Part 3 specifies specific methods to be used to determine leakage from gasoline trucks and associated vapor control systems.
This facility does not include gasoline tank truck loading facilities.

OAC 252:100-45 (Monitoring of Emissions) [Applicable]
Records and reports as Air Quality shall prescribe on air contaminants or fuel shall be recorded, compiled, and submitted as specified in the permit.

In summary of Oklahoma OAC Rules, the following are not applicable to this facility:

OAC 252:100-11	Alternative Emissions Reduction	not requested
OAC 252:100-15	Mobile Sources	not in source category
OAC 252:100-17	Incinerators	not type of emission unit
OAC 252:100-23	Cotton Gins	not type of emission unit
OAC 252:100-24	Grain Elevators	not in source category
OAC 252:100-33	Nitrogen Oxides	exempted by size
OAC 252:100-35	Carbon Monoxide	not in source category
OAC 252:100-37	Part 5 - Control of Organic Solvents	exempted by size
OAC 252:100-39	Nonattainment Areas	not in area category
OAC 252:100-41	Part 3 - NESHAP	not in source category
OAC 252:100-43	Part 3 - Specific Methods	not in source category

TIER CLASSIFICATION AND PUBLIC REVIEW

This application has been classified as Tier I based on the application data received for a minor source-operating permit.

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant has provided legal notice to those that do own the property. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at www.deq.state.ok.us.

INSPECTION

On December 12, 2001, the site inspection was conducted prior to issuing an operating permit. The inspection confirms the facility was built as described in the preceding INTRODUCTION section of this memorandum; however no testing as required by NSPS OOO or OAC Rules concerning engine emissions was done. The equipment must be tested while running at least 90% of the maximum rate that it will be used. The testing was not done before the end of the 2001 construction season. This required testing will be deferred until the beginning of the year 2002 construction season. The Specific Conditions of this permit sets forth the details of this testing.

TESTING

The testing required by NSPS OOO and OAC 252:100-19 will be performed during year 2002 construction period described in Operating Permit, Specific Condition No.s 4 and 12.

FEES PAID

Construction and operating permit fees totaling $1500 have been paid.

SUMMARY

The source has demonstrated compliance with the requirements of the applicable air pollution control rules and regulations. Ambient air quality standards are not threatened at the site. There are no active Compliance or Enforcement Air Quality issues concerning this facility. Issuance of the operating permit is recommended.

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

Greenhill Materials **Permit No. 99-034-O**
Quarry and Rock Crusher

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on December 6, 2001. The Evaluation Memorandum, dated February 8, 2002, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein:

1. Points of emission and emission limitations:

Equipment Activity[1]	Emissions		NSPS Applicable
	lb/hr	TPY	Yes/No
Feeder	0.005	0.006	Y
Jaw Crusher	0.14	0.18	Y
Impact Crusher	0.14	0.18	Y
Screen	0.45	0.56	Y
13 Conveyors	5.47	6.89	Y
Radial Stacker	0.21	0.26	Y
Radial Stacker	0.21	0.26	Y
Fugitives	31.35	39.20	N

(1) This includes the rock crusher and the pug mixer.

Diesel Engine Data	Bhp	Uncontrolled Emissions									
		NO_x		VOC		CO		SO_2		PM_{10}	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
J.Deere/ 4039T	95	1.58	1.97	0.02	0.02	0.06	0.07	0.32	0.40	0.64	0.80

2. The permittee is authorized to operate the rock crusher at process weight rates up to but not to exceed 300 TPH ("working day" average) and 750,000 TPY.

3 The permittee is authorized to operate the pug mixer at process weight rates up to but not to exceed 300 TPH ("working day" average) and 500,000 TPY.

4. The permittee shall be authorized to operate this facility continuously (24 hours per day, every day of the year).

5. Equipment/activities listed in Specific Condition #1 subject to NSPS Subpart OOO shall comply with the following opacity standards:

Hopper loading:	10 %
Primary crusher:	15 %
Second crusher:	15%
Screen:	10 %
Belt Conveyors:	10 %
Radial Stackers:	10 %

6. The permittee shall notify the Agency in writing 5 working days before beginning the 2002 construction season. The permittee shall conduct opacity testing by Reference Method 9 for the primary crusher, pug mixer, each screen, and each transfer point of the conveyors (all as near as practical to equipment design capacity). This testing shall be finalized within 30 days after the beginning of the year 2002 construction season. The testing results shall be submitted to Air Quality within 10 working days after the required testing is completed as part of conditions of this operating permit.

7. The diesel engine shall only use diesel fuel with a maximum sulfur content of 0.6%w.

8. Reasonable precautions shall be taken to minimize fugitive dust emissions from loading and unloading operations, roads, and stockpiles. These precautions shall include, but not be limited to:

a) Use of water or chemicals on roads, stockpiles, and materials during transfer operations.
b) Application of other coatings or coverings to substances susceptible to becoming air-borne or wind-borne.
c) Covering or wetting material in trucks.
d) Planting and maintaining vegetation coverings or windbreaks.
e) Locate stockpiles as to provide minimum exposure to high winds and avoid open spaces in line with neighboring homes and businesses.
f) All crusher spray bars should be fully operational when crusher is operating

9. The permittee may relocate any portable sources covered under this permit by obtaining a relocation permit in accordance with OAC 252:100-7-17 prior to relocating the portable source to another site. Relocating of such a source without a relocation permit shall void this operating permit for that source and subject the new facility to stationary source permit requirements.

10. An engine serial number or other acceptable form of permanent (non-removable) identification shall be on the engine.

11. Replacement (including temporary periods of up to six months for maintenance, etc.) of the internal combustion engine shown in this permit with an engine of lesser or equal emissions of each pollutant is authorized under the following conditions:

a. The permittee shall notify AQD in writing not later than 7 days in advance of the startup of replacement engines/turbines. Said notice shall identify the equipment removed and shall include the new engine/turbine make, model, and horsepower; date of the change, and any change in emissions.

b. The emissions limitations on any replacement engine shall not exceed the PPH rates of NOx and CO shown in SC 6.

12. The permittee shall keep records of operations as listed below. These records shall be retained on location or at a local field office for a period of at least two years following dates of recording, and shall be made available to regulatory personnel upon request.

(a) Throughput of the crusher (daily and 12 rolling).
(b) Throughput of the pug mixer (daily and 12 rolling).
(c) Hours of operation (daily and 12 rolling)
(d) Certification of sulfur content for each fuel delivery.
(e) Daily use of water used for PM control.

FAC 3421

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

March 24, 2000

Larry E. Milliger, Ph.D CHMM
Project Manager
POBox 10
Catoosa, OK 74015-0010

PLEASE FAX

RE: Proposed New Rock Crusher, Air Permit 99-34-C

Dear Larry,

I received your March 23, 2000 letter and location data requesting to shift the location of the proposed rock crusher 2500 feet to the West.

After reviewing permit 99-034-C and the new location data it is my opinion that the proposed new location is approved. This shift in the location of the new rock crusher will not require a significant change in the permit. The driving directions on my copy of the permit have been revised to reflect the new location.

Sincerely,

Jack Fly
Permit Writer
DEQ, ROAT

4716 N. 193rd E. Avenue
Post Office Box 10
Catoosa, OK 74015-0010
Telephone: (918) 266-6861
FAX (918) 266-6482

SHERWOOD CONST. CO., INC.

HOWARD SHERWOOD, Chairman
JOHN CURTIS, President
ROD ABBOTT, V.P. Const.
ALLEN PAYNE, V.P. Const.
ED VOSS, V.P. Const.
DAVID SHERWOOD, V.P. Equip.
DIANE SHERWOOD, V.P. Human Res.
PAT BURNS, Sec.-Treas.
CONNIE KASSON, Ass't Sec.
JERRY NOLL, C.F.O.
JOHN SHERWOOD, Corp. Counsel

March 23, 2000

Mr. Jack Fly P.E. – Sr. Environmental Engineer
Oklahoma Department of Environmental Quality
Air Quality Division
5051 South 129th East Ave
Tulsa, OK 74134-7004

RE: Request to relocate permitted rock crusher plant (Permit No. 99-034-C)

Dear Mr. Fly:

We have decided to change the proposed location for our rock crusher and haul road. The attached mine permit revision request letter provides the reasoning behind the crusher relocation.

Enclosed you will find an aerial photo-based location map which shows both the old (proposed) and new (proposed) locations. The crusher pad construction and crusher installation has not yet been done at the old proposed location.

Will our current air quality permit (NO. 99-034-C) apply to the NEW crusher location? All equipment and process data will remain the same as before. The only change will be relocation of the crusher facilities and access road to a point 2500 to 3000 feet west of the previously proposed location. As before, the crusher will be located within a natural ravine leading to the Bird Creek flood plain.

Will we receive an ODEQ letter approving the relocation of facilities under permit NO.99-034-C?

Please feel free to contact me at (918)645-3244 if you have questions or need additional data.

Sincerely yours,
SHEWOOD CONSTRUCTION CO. INC.

DAVE COOPER

Larry E. Milliger, Ph.D. CHMM
Project Manager

AN EQUAL OPPORTUNITY EMPLOYER

4716 N. 193rd E. Avenue
Post Office Box 10
Catoosa, OK 74015-0010
Telephone: (918) 266-6861
FAX (918) 266-6482

SHERWOOD CONST. CO., INC.

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DIANE SHERWOOD, V.P. Human Res.
PAT BURNS, Sec.-Treas.
CONNIE KASSON, Ass't Sec.
JERRY NOLL, C.F.O.
JOHN SHERWOOD, Corp. Counsel

March 23, 2000

Oklahoma Department of Mines
4040 North Lincoln Blvd., Suite 107
Oklahoma City, OK 73105
ATT: Doug Schooley – Manager, Non-Coal

RE: Request for revision of Permit No. L.E. 1745, Greenhill Materials Quarry

Dear Mr. Schooley:

In accordance with discussions held during our meeting on March 13, 2000, we are requesting revision of our permit to allow us to move the ingress/haul road to our crushing facilities, and the crushing facilities themselves, to a new area approximately 2500 – 3000 feet west of the originally proposed location(s).

Moving the previously-proposed haul road and crusher facility to their new location(s) will allow us to utilize an existing easement and access road to highway 266 which crosses the City of Tulsa water supply pipeline corridor. This existing city-approved access road was built across the city water lines by ODOT when highway 266 was originally constructed.

Construction of the approved access road required the construction of steel-reinforced, concrete bridging structures over each of the pipelines (specified by the city engineering department) to protect the pipelines from damage created by traffic on the access road.

The City of Tulsa has given us verbal approval to cross their pipeline corridor at the new (pre-existing) access road location.

Enclosed you will please find one original and two copies of each of the following permit revision pages:

1) Revised site map for entire permit area showing new bonded permit area (Phase I), new crusher location, new haul/access road location, new blast monitoring station locations and new sedimentation pond location.
2) Revised Phase I site map showing the above-listed items.
3) Revised Phase III site map showing the above-listed items.
4) Revised site location map (aerial photo-based).
5) Revised "permit acreage covered by bond" page.
6) Revised "permit term justification" page.
7) Revised section location maps for sections 10 and 11.

8) Revised blasting plan.

In addition, you will find enclosed the signed original of a bond increase rider, which will raise our posted bond from $83,200.00 (166.4 acres) up to $122,500.00 (245 acres).

We hope this submittal package will allow you to issue the permit revisions as requested. Please feel free to contact me at (918)645-3244 should you have any additional questions.

Sincerely yours,
SHEWOOD CONSTRUCTION CO. INC.

Larry Milliger
Project Manager

LEM:ck

LOCATION MAP

GREENHILL MATERIALS

QUARRY
&
LIMESTONE AGGREGATE PLANT

HAUL ROAD

Quarry Permit Boundary

145th EAST AVE

PHASE V

PHASE IV

HAUL ROAD

HAUL ROAD

PHASE III
REVISED

PHASE I
REVISED

PROCESS & STOCKPILE AREAS

HAUL ROAD

NEW PROPOSED CRUSHER LOCATION

OLD (PROPOSED) CRUSHER LOCATION

Industrial Park Site

HWY 266 (PORT ROAD)

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

~~T86-27~~	T86-40	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

PERMIT TO OPERATE

"COPY"

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

Date May 9, 19 86 Permit No. T86-27

The Sherwood Construction Company, having complied with the requirements of the law, is hereby granted permission to:

Relocate and operate an air curtain destructor (834-10) at 1700 North Osage Drive, Tulsa, Oklahoma.

TOTAL ALLOWABLE EMISSIONS: 15.4 TPY TSP

SHERWOOD CONSTRUCTION COMPANY WILL COMPLY WITH THE FOLLOWING RULES AND REGULATIONS: Section 209 C-6 and Oklahoma Clean Air Act, Regulation 2.1.

subject to the Standard Provisions appearing on the back of this permit and the following or attached special conditions:

A. Fire Department notification is required.
B. Buring is to take place only during favorable wind conditions.
C. Pit is not to exceed eight (8) feet in width.

This permit issued under authority, delegated to the Tulsa City-County Health Department by the Oklahoma State Department of Health, the Administrator of the Environmental Protection Agency and Section 214 of the City-County Air Pollution Regulations.

Roger D. Fanchowski Supervisor, Air Quality Control

J. Myg-Cleveland Chief, Pollution Control Division

PO-REL

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

Permit Number T86-27
Fee Attached Yes ✓ No
Amount of Fee 50.00
Receipt Number 13736
Received 5-7-86
Typed Mailed

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Co. of Oklahoma, Inc. proposes to change the location of their Burner portable plant, model number and type Air Curtain Destructor #834-10 presently located at N/A
(Geographical Location)
to the new location at SE¼ Sect27 T20N R12E (1700 N. OSAGE)
(Geographical Location)
and operate at that location from 5/12/86 (Date) to 6/15/86 (Date)
and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number T83-28 issued by Tulsa City County Health Department
(Agency Issuing Permit)
and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Rodney L. Abbott Title Project Engineer

Name (Typed or Printed) Rodney L. Abbott Telephone 918)266-6861

Company Street Address P.O. Box 974

City, State, Zip Catoosa, Oklahoma 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

TULSA CITY-COUNTY HEALTH DEPARTMENT
PERMIT APPLICATION SUMMARY
LOG SHEET INFORMATION

Permit No. T86-27

Fees: Const. _____ Operate 50.00

Applicant Firm Sherwood Construction Co.

Location of Proposed Source Air Curtain Destructor (834-10)

		Permit Application For:	
		Const./Mod.	Operate/Relocate
	Evaluator Assigned		
	Coordination Required with: (Return to Evaluator)		
	Monitoring		
	Enforcement		
	Engineering		WD
Col. 3:	Date Application Received	5-7-86	
Col. 7:	Date Evaluation Complete		
Col. 8:	Date Inspection Complete		5/7/86 RB
Col. 9:	Tests Req./Compl.		no
Col. 10-11:	Public Review Required?		no
	Date Completed		—
Col. 13:	Additional Fee Required?		no
Col. 19-21:	Pending Action/Date		—

Col. 15-28: Description of Proposed Facility/Emission Unit:
Air Curtain Destructor (834-10) (Co. #99-95 Cat)

Col. 22 Pollutant	Col. 23 Potential	Col. 24 Allowable	Col. 25 Est. or Actual
Organic Material			Based on 245 lbs/hr NMHC
TSP			7 T/hr 329 " "
CO			burning 889 " "
SOx			rate
Other (Specify)			

Total Emissions, all Pollutants _____

Permit No. T86-27

Evaluator _____

Proposed Pollution Controls Meet: (List applicable regulations or ordinances and also non-applicability).

1. Applicable Regs: City _____
   County _____
   State Reg. 2.1
   NSPS _____
   NESHAPS _____

2. Applicable Technology: LAER _____ BACT _____ RACT _____

3. Location Area: Non-attainment _____ Unclass. _____ Attainment _____

Calculations (attach)

_____

_____

DRAFT PERMIT STATEMENTS

1. Is Hereby granted permission to: Relocate and operate an Air Curtain Destructor (834-10) at 1700 N. Osage Dr., Tulsa, Oklahoma.

Total allowable emissions are: _____ lbs/hr. _____ tons/yr. For _____ pollutant

2. The following special conditions:

a. Fire Department approval is required.
b. Burning is to be done only during favorable Wind conditions.
c. Width of pit is not to exceed eight (8) feet.

continue on back

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

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Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE

copy

permit

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

DATE: December 19, 1990 **PERMIT NUMBER:** T90-133

SHERWOOD CONSTRUCTION COMPANY OF OK, INC., having complied with the requirements of the law, is hereby granted permission to relocate and operate an open pit incinerator at to North of 106th Street South and Elgin (NW 1/4 of the SE 1/4 of square mile 2582), Tulsa, Oklahoma.

TOTAL ESTIMATED EMISSIONS: 12.9 TPY TSP
23.5 TPY CO
1.0 TPY VOC

SHERWOOD CONSTRUCTION COMPNAY OF OK, INC., MUST COMPLY WITH THE FOLLOWING CITY-COUNTY AND STATE RULES, REGULATIONS AND/OR ORDINANCES, THE STANDARD PROVISIONS ON THE BACK OF THIS PERMIT AND THE ATTACHED SPECIAL CONDITIONS:

The City of Tulsa Clean Air Code, Title 17, Chapter 7, Sections 707 and 712, County of Tulsa Clean Air Rules and Regulations, Under Authority of Title 63, Oklahoma Statues, Sections 209 and 214 and the Oklahoma Clean Air Act, Regulations 1.4 and 2.1.

SEE ATTACHED SHEET FOR SPECIAL CONDITIONS

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF HEALTH, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTIONS 214 AND 712 OF THE CITY-COUNTY AIR POLLUTION REGULATIONS.

William Sandt DATE 12/20/90
Manager, Air Quality Control

Jack E. Walker DATE 12/20/90
Chief, Environmental Services

STANDARD PROVISIONS

1. This permit is void (18) eighteen months after date of issue unless construction of this project has begun on or prior to that date, or if the work involved in the construction is suspended for 18 months or more.

2. The Air Quality Control Section shall be notified at least 30 days prior to the first day of operation of this facility. The recipient of this permit shall apply for a permit to operate within 60 days following the first day of operation.

3. If any statement or representation in the application or supplemental information is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued.

4. There shall be no deviation from the approved plans and specifications unless revised plans are submitted to the Air Quality Control Section and a revised permit issued.

5. During or after the construction or the installation of the equipment for which this permit was issued, the Tulsa City-County Health Department shall have the right and authority to inspect such work and operation.

6. This permit shall not be construed to affect the title of the premises upon which the equipment is to be located, nor does it release the permittee from any liability for damage to persons or property caused by, or resulting from the installation, maintenance or operation of the proposed equipment, this permit does not release the permittee from compliance with other applicable statutes of the State of Oklahoma, or with applicable local laws, regulations or ordinances.

7. This permit is subject to periodic review and change as deemed necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act, and City-County rules and regulations.

8. The Air Quality Control Section of the Tulsa City-County Health Department shall be kept informed on occurrences which may affect the eventual performance of the facility or that will unduly delay the progress of the project.

9. This permit incorporates by reference supplemental data and information submitted by the applicant and further incorporates calculated data established in the Air Quality Analysis.

10. The special permit condition incorporated in this permit shall remain in effect throughout the operating life of the permitted source except as specifically voided by a new or revised permit.

11. Any testing or monitoring required, including test stands or test equipment, shall be provided at the applicant's expense.

12. The applicant shall submit reports as required and maintain records necessary to ascertain continued compliance. Such records shall be available upon request of the Air Quality Control Section.

13. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

ROUTING AND REVIEW SHEET

PC ___ PO ✓ Relocate | PERMIT # I 90-133

(t) SOURCE NAME Sherwood Const.

(t) LOCATED AT NW 1/4 of the SE 1/4 Sec 7 T 18N R 14E TO

SOURCE TYPE NW 1/4 of the SE 1/4 Sec. 25 TN 18N R 12E Relocate

DATE RECEIVED 12-18-90 FEE RECEIVED 50.00 FEES OK ___

RECEIPT # 247732 COMPANY CHECK # 5952 CALCULATED FEE ___

	NAME	DATE REC'D	DATE APPR'D	INITIAL
EVALUATOR	Castleberry	12-18-90	12-19-90	JAC
INSPECTOR	Eldredge	12-19-90	12-19-90	SDE/JAC
SOURCE TESTER				
SUPERVISOR	JHU	12-19-90	12-19-90	JHU
TYPIST	Connie	12-18-90		

HAS PERMIT DATA BEEN ENTERED INTO COMPUTER ??? Yes KCC 12-18-90

COMMENTS (i.e. hold for additional information) ___

Address: north of 106th Street South & Elgin - denks

(t) PERMISSION TO: relocate open pit incinerator to NW/4 of the SE 1/4 of section 2582

(t) ALLOWABLE EMISSIONS (TPY): TSP/ 2.9 ; PM10/ ___ ; SO2/ ___ ; CO/ 23.5 ; VOC/ 1.0 ; NOx ___ ; OTHER ___ / ___

REMARKS: see attached sheet

APPLICABLE TECHNOLOGY: LAER ___ BACT ___ RACT ✓

APPLICABLE REGULATIONS: PSD ___ NSPS ___ NESHAPS ___ SIP ✓

(t) STATE 1.4, 2.1 (t) CITY/COUNTY 209, 214

(t) SPECIAL CONDITIONS ___ (Std Open Pit Conditions)

HAVE YOU DONE THE FOLLOWING?

[ ] 1. Specify, in permits, which Federal and State Regulations apply, when Regulations are used to limit emissions.

[ ] 2. Specify, in permits, the method to determine compliance and the date by which compliance will be demonstrated on all major sources and on minor sources, as appropriate.

[ ] 3. Comply with the EPA guidelines for modeling and interpretations, in accordance with the Oklahoma PSD SIP, including determinations of applicability, interpretation/use of air quality models and monitoring methods.

[ ] 4. Ensure that applicants subject to Oklahoma Regulation 1.4.4 submit, in the permit application, an analysis of BACT, taking into account energy, environmental, costs and economic impacts of alternative control systems, for each pollutant emitted in significant quantities and for each applicable emission point.

[ ] 5. Document and verify the methodology used to ensure that the proposed emissions will not violate the NAAQS and the applicable PSD increments, as appropriate. (Modeling in some cases.)

[ ] 6. Comply with public participation requirements of Oklahoma Regulation 1.4 and be fully responsive to comments and testimony.

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

DEC 1990 TCCHD AIR QUALITY

Permit Number T90-133
Fee Attached Yes ___ No ✓
Amount of Fee 50.00
Receipt Number 747732
Received 11-6-90
Typed ___ Mailed ___

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Company of OK, Inc. proposes to change the location of their Air Curtain Destructor portable plant, model number and type Model 034-10 presently located at NW ¼ of the SE ¼ Sec 7 TN 18N R 14 E (Geographical Location) to the new location at NW ¼ of the SE ¼ SEC 25 TN 18N R12E (Geographical Location) and operate at that location from Dec. 17, 1990 (Date) to Jan. 16, 1991 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number ___ issued by ___ (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Tom Zimmerman Title Project Engineer

Name (Typed or Printed) Tom Zimmerman Telephone (918)266-6861

Company Street Address 4716 N. 193rd E. Ave

City, State, Zip Catoosa, OK 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

M E M O R A N D U M

TO: Air Quality Staff

FROM: Roger Randolph

SUBJECT: Open Pit Incinerator Emission Factors

DATE: March 10, 1988

The following emission factors are to be used in calculating emissions from open pit incinerators:

2.9	Particulates	0.0034 tons of emissions per 1 ton of brush burned.
23.5	Carbon Monoxide	0.028 tons of emissions per one ton of brush burned.
1.0	Hydrocarbons	0.0012 tons of emissions per one ton of brush burned.

These estimates are based on 80% of emissions if brush was open burned using AP-42 factors.

7 tons per hour of operation JJC

15 day * 8 hour = 120 hours operation

840 tons burned

APPROVED

TULSA CITY-COUNTY HEALTH DEPARTMENT

BY Roger D. Randolph

RDR:kcc:AQ8864

M E M O R A N D U M

TO: Roger Randolph
Open Pit Incinerator File and
Procedures Manual

FROM: Mark Jensen DMJ

SUBJECT: Emission Factors For Use In Determining Total Emissions From Open Pit Incinerators

DATE: February 23, 1988

The following emission factors are to be used in developing total emissions from open pit incinerators:

Particulate	$\frac{0.0034 \text{ tons emissions}}{1 \text{ ton brush}}$	47.6
CO	$\frac{0.028 \text{ tons emissions}}{1 \text{ ton}}$	392.0
HC	$\frac{0.0012 \text{ tons emissions}}{1 \text{ ton brush}}$	16.8

Estimates on tons of brush should be obtained from contractor. These estimates are based on 80% of emissions if brush was open burned using AP-42 factors.

DMJ:kcc:OPENPIT

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

ENTERED 5-3-91 KC

DATE: May 2, 1991 PERMIT NUMBER: T91-045

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED, having complied with the requirements of the law, is hereby granted permission to operate an open pit incinerator located at 9500 East 96th Street, Tulsa, Oklahoma, 74137

TOTAL ESTIMATED EMISSIONS: 1.9 TSP TPY
15.6 CO TPY
.67 VOC TPY

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, MUST COMPLY WITH THE FOLLOWING CITY-COUNTY AND STATE RULES, REGULATIONS AND/OR CODES, THE FOLLOWING SPECIAL CONDITIONS ALONG WITH THE STANDARD PROVISIONS ON THE BACK OF THIS PERMIT. COMPLIANCE WILL BE DETERMINED BY INSPECTION.

REGULATIONS:

The City of Tulsa, Clean Air Code, Title 17, Chapter 7, Sections 709 and 712 County of Tulsa Clean Air Code, Under Authority of Title 63, Sections 709 and 712 and the Oklahoma Clean Air Act, Regulations 1.4 and 3.1.

SPECIAL CONDITIONS:

SEE ATTACHED COPY

THIS PERMIT ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF HEALTH, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTION 712 OF THE CITY-COUNTY AIR POLLUTION CODES.

J. M. Van Sandt DATE 5/2/91
Manager, Air Quality Control

Ray Bishop DATE 5/02/91
Chief, Environmental Services

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

SPECIAL CONDITIONS

Sherwood Construction Company of Oklahoma, Incorporated
T91-045

A. Apply for Permit to Operate and/or Permit to Relocate for each pit used for burning of brush.

B. Permanent location for air curtain burner is not allowed.

C. Changes in air curtain burner, i.e. blower, plenum or engine, may require a new construction permit.

D. The appropriate Fire Department approval is required for each permit.

E. Burning is allowed only when the wind is no more than fifteen (15) miles per hour or less.

F. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

G. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

H. Complaints regarding operation may be cause for revocation of this permit.

I. Compliance to be determined by inspection.

J. Notify this office one day before operation begins.

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

APR 1991 TCCHD AIR QUALITY

Permit Number T91 045
Fee Attached Yes X No
Amount of Fee 92.00
Receipt Number 132242
Received 4-22-91
Typed 5-2-91 Mailed 5-3-91

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The SHERWOOD CONSTRUCTION CO. OF OK, INC. proposes to change the location of their Air Curtain Destructor portable plant, model number and type Model 034-10 presently located at NW¼ of SE ¼ SEc 25 TN 18N R12E (Geographical Location) to the new location at S½ NW¼ Section 24 TN18N R13E (Geographical Location) and operate at that location from April 24, 1991 (Date) to June 24, 1991 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by _____ (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Tom Zimmerman Title Project Engineer

Name (Typed or Printed) Tom Zimmerman Telephone (918) 266-6861 — call for appt.

Company Street Address 4716 N. 193rd E. Ave

City, State, Zip Catoosa, OK 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

ROUTING AND REVIEW SHEET

PC ___ PO X | PERMIT # T91-045

(t) SOURCE NAME Sherwood Constr. Co. of DC Inc.

(t) LOCATED AT S½ NW¼ Sec. 24 TN18N R13E 9500 E 96th St.

SOURCE TYPE Permit to Operate (Re-locate)

DATE RECEIVED 4-22-91 FEE RECEIVED yes FEES OK ___

RECEIPT # 732242 COMPANY CHECK # 6903 CALCULATED FEE 50.00

	NAME	DATE REC'D	DATE APPR'D	INITIAL
EVALUATOR	EThridge	4-24-91	4-24-91	JDE
INSPECTOR	EThridge	4-24-91	5-1-91	JDE
SOURCE TESTER				
SUPERVISOR	Van Sandt	5/1/91	5/1/91	GHV
TYPIST	EQR			

HAS PERMIT DATA BEEN ENTERED INTO COMPUTER ??? ENTERED KCC 4-22-91

COMMENTS (i.e. hold for additional information)

* call for appointment — They will take inspector to pit — 4 wheel drive required — Glen

(t) PERMISSION TO: Operate an open pit incinerator located at 9500 E. 96 St So

(t) ALLOWABLE EMISSIONS (TPY): TSP/ 1.9 ; PM10/ ___ ; SO2/ ___ ;

CO/ 15.6 ; VOC/ .67 ; NOx ___ ; OTHER ___ / ___

REMARKS: 80 hrs * 7 tons/Hr. = 560 tons

APPLICABLE TECHNOLOGY: LAER ___ BACT ___ RACT X

APPLICABLE REGULATIONS: PSD ___ NSPS ___ NESHAPS ___ SIP X

(t) STATE 1.4 3.1 (t) CITY/COUNTY 712, 709

(t) SPECIAL CONDITIONS Same as previous permit

HAVE YOU DONE THE FOLLOWING?

[ ] 1. Specify, in permits, which Federal and State Regulations apply, when Regulations are used to limit emissions.

[ ] 2. Specify, in permits, the method to determine compliance and the date by which compliance will be demonstrated on all major sources and on minor sources, as appropriate.

[ ] 3. Comply with the EPA guidelines for modeling and interpretations, in accordance with the Oklahoma PSD SIP, including determinations of applicability, interpretation/use of air quality models and monitoring methods.

[ ] 4. Ensure that applicants subject to Oklahoma Regulation 1.4.4 submit, in the permit application, an analysis of **BACT**, taking into account energy, environmental, costs and economic impacts of alternative control systems, for each pollutant emitted in significant quantities and for each applicable emission point.

[ ] 5. Document and verify the methodology used to ensure that the proposed emissions will not violate the **NAAQS** and the applicable PSD increments, as appropriate. (Modeling in some cases.)

[ ] 6. Comply with public participation requirements of Oklahoma Regulation 1.4 and be fully responsive to comments and testimony.

918-266-6861
P.O. Box 90
Catoosa, Oklahoma 74015

SHERWOOD
CONSTRUCTION CO. OF OKLAHOMA, INC.

Fax # (918) 266-6482

JOHN CURTIS, President
ALLEN PAYNE, Vice-President
HOWARD SHERWOOD, Secretary
HERB VON HOLLEN, Treasurer

April 22, 1991

Tulsa City - County Health Dept.
Air Quality Control Programs
ATTENTION: Air Permits
4616 E. 15th Street
Tulsa, OK 74112

Dear Sir:

Please find the enclosed application for burning within the City of Tulsa limits. The application is for pit burning and an air curtain destructor. The material being burned is cleared timber for Oklahoma Department of Transportation Project MAF-521(502) Mingo Valley Expressway from 91st to Memorial Road. All applicable safety standards and local ordinances for this type of burning will be strictly adhered to.

Respectfully,
SHERWOOD CONST. CO. OF OK, INC.,

Tom Zimmerman
Project Engineer

TZ:ck

cc; file
Job file

Line BUSINESS FORM—PRODUCT OF WILSON JONES

RECEIPT Date 4-22 1991 No. 732242

Received From Sherwood Constr. Co.

Address P.O. Box 90, Catoosa 74015

Dollars $ 50.00

For Permit to Open (Relocate) T91-045

CC # 6903

ACCOUNT	AMT. OF ACCOUNT	AMT. PAID

HOW PAID: CASH ☐ CHECK ☑

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.
P. O. BOX 90 PH. 918-266-6861
CATOOSA, OK 74015

1st Bank of Catoosa
P.O. DRAWER L • 918-266-2271
CATOOSA, OKLAHOMA, 74015

6903

86-138
1031

April 19 1991

PAY [illegible] DOLLARS $ 50.00

TO THE ORDER OF Tulsa County Health Department

⑈006903⑈ ⑆103101385⑆ ⑈12 766 2⑈

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE DATE	INVOICE NO.	DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS DISCOUNT	DEDUCTIONS FREIGHT	NET AMOUNT
		Air Destructor Permit				

V-4

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
~~T93-063~~	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

ENTERED

DATE: July 30, 1993 PERMIT NUMBER: 93-063

SHERWOOD CONSTRUCTION, having complied with the requirements of the law, is hereby granted permission to operate, in an approved manner, an open-pit incinerator located at 51st and Garnett on the Northwest corner, Tulsa, Oklahoma.

ESTIMATED EMISSIONS:	POUNDS/HOUR	TONS/YEAR
Particulate:	46.6	2.8
Sulfur Dioxide:	N/A	N/A
Nitrogen Oxide:	N/A	N/A
Carbon Monoxide:	392	23.52
Volatile Organic Compounds:	16.8	1.0
Air Toxics:	N/A	N/A

COMPLIANCE DETERMINATION:

1. Inspection of operation.

THE STANDARD PROVISIONS ARE LISTED ON THE BACK OF THIS PERMIT.

THE APPLICABLE REGULATIONS AND SPECIAL CONDITIONS ARE ATTACHED.

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF HEALTH, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTION 712 OF THE CITY-COUNTY AIR POLLUTION CODES.

Ray Bishop DATE 7/30/93
Manager, Air Quality Control

Jack Walling DATE 08-02-93
Chief, Environmental Health Services

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

THE FOLLOWING FEDERAL, STATE, CITY-COUNTY RULES, REGULATIONS AND/OR CODES, AND SPECIAL CONDITIONS ARE APPLICABLE.

REGULATIONS:

Environmental Protection Agency, Code of Federal, Regulations:

Title(s)

N/A

Oklahoma Clean Air Act, Oklahoma Administrative Code, Title 310, Chapter 200, Air Pollution Control Rules,

Subchapter(s):

7 - Permits
13- Prohibition of Open Burning, Section 7

City of Tulsa Clean Air Code Title 17, Chapter 7,

Section(s):

707- Control of Open Burning
712- Permit to Construct and Operate Required

County of Tulsa Clean Air Code,

Section(s):

707- Control of Open Burning
712- Permit to Construct and Operate Required

SPECIAL CONDITIONS:

1. Apply for Permit to Operate and/or Permit to Relocate for each pit used for burning of brush.

2. Permanent location for air curtain burner is not allowed.

3. Changes in air curtain burner, i.e., blower, plenum or engine, may require a new construction permit.

4. The appropriate Fire Department approval is required for each permit.

5. Burning is allowed only when the wind is no more than fifteen (15) miles per hour or less.

6. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

7. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

8. Complaints regarding operation may be cause for revocation of this permit.

9. Compliance to be determined by inspection.

10. **Notify his office one day prior to operation beginning.**

11. Permit expires 180 days from date of issuance.

PERMIT.OPI

ROUTING AND REVIEW SHEET

PC____ PO X PERMIT # 93-063 ST Open Pit Incinerator

* Source Name Sherwood Construction

* Located At 51st and Garnett N/W Corner, Tulsa

Date Received 07/13/93 Fee Received 07/13/93 Fees OK Yes

Receipt # 724179 Company Check # 9408 Calculated Fee 50.00

	NAME	DATE RCVD	DATE APRVD	INITIAL
Evaluator ✓	JDE	7-14-93	7-27-93	JE
Inspector ✓	Bernie Nally BJN		7-27-93	
Supervisor	G. Castleberry	7-27-93	7-27-93	JAC
Manager	R. Bishop			
Typist	E. Roberts	7-30-93	7-30-93	ER
Comp. Entry	K. Coulander	7-15-93	7-15-93	KCC

ENTERED KCC 7-15-93

Comment (i.e. hold for additional information) _____

* Permission To: Operate an open pit incinerator, in an approved manner at the above mention location.

(add) Standard Special Conditions for open pit incinerator

* Allowable Emissions (LB/HR - TPY): TSP/ 46.6 - 2.8 ; PM10/____-____;

SO2/____-____; NOx/____-____; CO/ 392 - 23.52 ; VOC/ 16.8 - 1.0 ;

Other _____

Remarks 120 hours * 7 tons = 840 tons TSP = 840 * .0034 = 2.8 CO = 840 * .028 = VOC = 840 * .0012 = 1

Applicable Technology: LAER ____ BACT ____ RACT ✓
Applicable Regulations: PSD ____ NSPS ____ NESHAPS ____ SIP ✓

* Federal: N/A

* State: 310:200-7, 310:200-13-7

* City: 712, 707

* County: 712, 707

SPECIAL CONDITIONS YES NO

11/23/92

PO-REL

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

JUL 1993 TCGHD AIR QUALITY

Permit Number 93-063
Fee Attached Yes X No
Amount of Fee 50.00
Receipt Number 124179
Received 7-13-93
Typed 7/30/93 Mailed Exempt

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

(T87-84)

The Sherwood Constr. proposes to

change the location of their 2800 N. Yale Ave, Tulsa

portable plant, model number and type Air Curtain Destr. Model 034-10

presently located at 2800 N. Yale Ave, Tulsa
(Geographical Location)

to the new location at 51st + Garnett N/w Corner
(Geographical Location)

and operate at that location from 7/15/93 to 10/15/93 (approx. 15 days / RWE)
(Date) (Date)

and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number T87-84 issued by TCCHD.
(Agency Issuing Permit)

and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Ronald W. Egge Title Office Engineer

Name (Typed or Printed) Ronald W. Egge Telephone 918-266-6861

Company Street Address P.O. Box 90

City, State, Zip Catoosa, OK 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

SHERWOOD SOUTH, INC.
P. O. BOX 90 PH. 916-266-6661
CATOOSA, OK 74015

Bank of Catoosa
P.O. BOX 3000 • 918-266-2271
CATOOSA, OKLAHOMA 74015

9408

86-138
1031

July 13 19 93

PAY Sherwood South DOLLARS $50.00

TO THE ORDER OF

Tulsa City-County Health Dept.
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, OK 74112

⑈009408⑈ ⑆103101385⑆ ⑈12 766 2⑈

DELUXE DOUBLE VOUCHER

RECEIPT Date 7-13 19 93 No. 724179

Received From Sherwood South

Address Catoosa

Fifty dollars 00/xx Dollars $ 50.00

For PD Open Pit Incineration 93003

ACCOUNT			HOW PAID		
AMT. OF ACCOUNT			CASH		
AMT. PAID			CHECK	50	00
BALANCE DUE			MONEY ORDER		

CK - 9408

By E. Roberts

Gray Line BUSINESS FORM—PRODUCT OF WILSON JONES

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
T93-063	~~T94-008~~	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT
4616 EAST 15th STREET
TULSA, OK 74112

ENTERED

DATE: January 24, 1994 PERMIT NUMBER: 94-008

SHERWOOD CONSTRUCTION, having complied with the requirements of the law, is hereby granted permission to operate in an approved manner, an air curtain destructor located at State Highway 20 and Bird Creek, Tulsa, Oklahoma.

ESTIMATED EMISSIONS:	POUNDS/HOUR	TONS/YEAR
Particulate:	26.39	1.90
Sulfur Dioxide:	N/A	N/A
Nitrogen Oxide:	N/A	N/A
Carbon Monoxide:	217.78	15.68
Volatile Organic Compounds:	9.31	.67
Air Toxics:	N/A	N/A

COMPLIANCE DETERMINATION:

1. Inspection of operation.

THE STANDARD PROVISIONS ARE LISTED ON THE BACK OF THIS PERMIT.

THE APPLICABLE REGULATIONS AND SPECIAL CONDITIONS ARE ATTACHED.

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF ENVIRONMENTAL QUALITY, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTION 712 OF THE CITY-COUNTY AIR POLLUTION CODES.

Ray Bishop DATE Jan 25, 1994
Manager, Air Quality Control

Jack Walling DATE 01-26-94
Chief, Environmental Health Services

THE FOLLOWING FEDERAL, STATE, CITY-COUNTY RULES, REGULATIONS AND/OR CODES, AND SPECIAL CONDITIONS ARE APPLICABLE.

REGULATIONS:

Environmental Protection Agency, Code of Federal Regulations:

Title(s)

N/A

Oklahoma Clean Air Act, Oklahoma Administrative Code, Title 310, Chapter 200, Air Pollution Control Rules,

Subchapter(s):

7 - Permits
13- Prohibition of Open Burning, Paragraph 9

City of Tulsa Clean Air Code Title 17, Chapter 7,

Section(s):

N/A

County of Tulsa Clean Air Code, Title 17, Chapter 7,

Section(s):

707 - Control of Open Burning
712- Permit to Construct and Operate Required

SPECIAL CONDITIONS:

1. This permit is for the burning of brush only.

2. Apply for Permit to Operate and/or Permit to Relocate for each pit used for burning of brush.

3. Permanent location for air curtain burner is not allowed.

4. Changes in air curtain burner, i.e., blower, plenum or engine, may require a new construction permit.

5. The appropriate Fire Department approval is required for each permit.

6. Burning is allowed only when the wind is fifteen (15) miles per hour or less.

7. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

8. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

9. Complaints regarding operation may be cause for revocation of this permit.

10. Compliance to be determined by inspection.

11. Notify this office one day prior to operation beginning.

12. Permit expires 180 days from date of issuance.

PERMIT.OPI

ROUTING AND REVIEW SHEET

PC____ PO X PERMIT # 94-008 ST OPI - Relocate

1/19/94
Wont be ready for inspection until next week.
AV

* Source Name Sherwood Construction

* Located At State Highway 20 and Bird Creek.

Date Received 1/10/94 Fee Received 1/10/94 Fees OK Yes

Receipt # 2790 Company Check # 1513 Calculated Fee 50.00

	NAME	DATE RCVD	DATE APRVD	INITIAL
Evaluator	J Fry	1-12-94	1-18-94	JF
Inspector	D Virgil	1-19-94	1-19-94	DV
Supervisor	G. Castleberry	1-20-94	1-20-94	JF
Manager	R. Bishop			
Typist	E. Roberts - Norma	1-24-94	1-24-94	Norma
Comp. Entry	K. Coulander	1-11-94	1-11-94	KC

ENTERED KC

Comment (i.e. hold for additional information) _____

* Permission To: OPERATE AN AIR CURTAIN DESTRUCTION INCINERATOR IN AN APPROVED MANNER AT THE ABOVE LOCATION. EIVD JF

* Allowable Emissions (LB/HR - TPY): TSP/2639-1.90; PM10/ ——-——;

SO2/ ——-——; NOx/ ——-——; CO/ 2778-15.18; VOC/ 931-0.67;

Other _____

Remarks ABOUT 50TONS DRIED TREES

Applicable Technology: LAER ____ BACT X RACT____
Applicable Regulations: PSD ____ NSPS ____ NESHAPS ____ SIP X

* Federal: N/A

* State: 310:200-7 310:200-13

* City: N/A

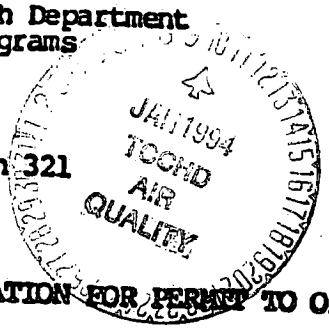
* County: 712 707

SPECIAL CONDITIONS (YES) NO

ATTACHED DESCRIPTION NO 1 THRU 12

11/23/92

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321



Permit Number 000000 94-008
Fee Attached Yes X No
Amount of Fee 50.00
Receipt Number 2790
Received 1-10-94
Typed Mailed

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The _____ proposes to change the location of their OPEN-PIT INCINERATOR portable plant, model number and type CAT 034-10 XW-7214 presently located at 51st And Garnett (Northwest Corner) (Geographical Location) to the new location at State Highway 20 And Bird Creek (Geographical Location) and operate at that location from _____ (Date) to _____ (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by _____ (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Ronald W. Eggs Title Office Engineer

Name (Typed or Printed) RONALD W. EGGS Telephone 918-266-6861

Company Street Address Sherwood Construction P.O. Box 10

City, State, Zip Catoosa, OK 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

Date 1/10 1994 No.

Received Of Sherwood Constr Co.

Address Catoosa

Fifty dollars + 00/xx — $ 50 00/xx

For OPI 94-008 - Relocate

HOW PAID	BALANCE DUE
C-1513	

REDIFORM 8L826 carbonless

By E. Roberts

1513

SHERWOOD CONST. CO., INC.
P. O. BOX 10 PH. 266-8861
CATOOSA, OK 74015

BOATMEN'S
BOATMEN'S FIRST NATIONAL BANK OF OKLAHOMA; TULSA, OKLAHOMA 74146-1700

86-181/1039

January 10 1994

PAY [illegible] DOLLARS $ 50.00

TO THE ORDER OF
Tulsa City-County Health Department
Air Quality Control Programs
Atn: Air Permits
4616 East 15th Street
Tulsa, OK 74112

MP

⑈001513⑈ ⑆103901815⑆ 14018108784 3⑈

® DELUXE DOUBLE VOUCHER

PERMIT # 94-008

JAN 18, 1994

CALLED SHERWOOD CONST 1030,

TALKED TO SECRETARY. SHE

SAID RON EGGE COULD GIVE ME

BURN DETAILS. HE WOULD CALL.

JFly

TALKED TO MR EGGE 1420 Hrs

TREES 150 YD^3

10 DAYS — 8 HRS 80 HOURS on

START DATE 1-31-94

$37\#/FT^3 \times .50\%$ WOOD $\times$ 150 $YD^3 \times \frac{27\ FT^3}{YD^3} \cong 40$ TONS

USE 50 TONS OR 50 TONS/YR

JFly

PARTICULATES = .0034 TONS/TON BURNED = .17 T/YR = 4.25 #/HR

CO = $.028 \times 50 = 1.4$ T/yr = 35 #/Hr

HC = $.0012 \times 50 = .06$ T/yr = 1.5 #/Hr

* Recalculated by Davison Virgil. See Attached Calculations.

Calculations For Permit # 94-008

Working days = 10
Hours/day = 8 hrs
Total hours = 10 x 8 = 80 hrs
Fuel volume: 7 tons/hr = AP42 Fuel Factor
Total Tons 7 Tns/hr x 80 hrs = 560 Tons Fuel

Tons TSP: 560 Tn-fuel x 0.0034 = 1.90

Tons CO: 560 Tns-fuel x 0.028 = 15.68

Tons VOC: 560 Tns fuel x 0.0012 = 0.67

lbs per hour:
TSP 1.90 x 2000 ÷ 144 = 26.39 lbs/hr

CO 15.68 x 2000 ÷ 144 = 217.78 lbs/hr

VOC 0.67 x 2000 ÷ 144 = 9.31 lbs/hr

Calculations by: Davison Virgil
19 January 1994

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

ENTERED

DATE: September 1, 1994 **PERMIT NUMBER: 94-111**

SHERWOOD CONSTRUCTION CO. INC., having complied with the requirements of the law, is hereby granted permission to operate, an air curtain destructor in an approved manner, located at 1/4 mile South of 71st Street and 145th East Avenue, Broken Arrow, Oklahoma.

ESTIMATED EMISSIONS:	**POUNDS/HOUR**	**TONS/YEAR**
Particulate:	47.6	9.14
Sulfur Dioxide:	N/A	N/A
Nitrogen Oxide:	N/A	N/A
Carbon Monoxide:	392	75.26
Volatile Organic Compounds:	16.8	3.23
Air Toxics:	N/A	N/A

COMPLIANCE DETERMINATION:

1. Inspection of operation.

THE STANDARD PROVISIONS ARE LISTED ON THE BACK OF THIS PERMIT.

THE APPLICABLE REGULATIONS AND SPECIAL CONDITIONS ARE ATTACHED.

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF ENVIRONMENTAL QUALITY, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTION 712 OF THE CITY-COUNTY AIR POLLUTION CODES.

Ray Bishop DATE 9-01-94
Manager, Air Quality Control

Jack Walling DATE 9/1/94
Chief, Environmental Health Services

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

THE FOLLOWING FEDERAL, STATE, CITY-COUNTY RULES, REGULATIONS AND/OR CODES, AND SPECIAL CONDITIONS ARE APPLICABLE.

REGULATIONS:

Environmental Protection Agency, Code of Federal Regulations:

Title(s)

N/A

Oklahoma Clean Air Act, Oklahoma Administrative Code, Title 252, Chapter 100, Air Pollution Control Rules,

Subchapter(s):

13 - Prohibition of Open Burning (Paragraph 9)
7 - Permits

City of Tulsa Clean Air Code Title 17, Chapter 7,

Section(s):

N/A

County of Tulsa Clean Air Code, Title 17, Chapter 7,

Section(s):

N/A

SPECIAL CONDITIONS:

1. This permit is for the burning of brush only.
2. Apply for Permit to Operate and/or Permit to Relocate for each pit used for burning of brush.
3. Permanent location for air curtain burner is not allowed.
4. Changes in air curtain burner, i.e., blower, plenum or engine, may require a new construction permit.
5. The appropriate Fire Department approval is required for each permit.
6. Burning is allowed only when the wind is fifteen (15) miles per hour or less.
7. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

8. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

9. Complaints regarding operation may be cause for revocation of this permit.

10. Compliance to be determined by inspection.

11. **Notify this office one day prior to operation beginning.**

12. Permit expires 180 days from date of issuance.

PERMIT.OPI

ROUTING AND REVIEW SHEET

PC _ PO X PERMIT # [redacted]4-111 ST [redacted]I OPI

* Source Name SHERWOOD CONSTRUCTION CO., INC.

* Located At 94th St.S. & 72nd E.Ave., (NW 1/4, Sec 23, T18N, R13E)

Date Received 08/24/94 Money Received 08/24/94 Fees OK YES

Receipt # 7119 Company Check CASH Calculated Fee 50.00

	NAME	DATE RCVD	DATE APPRVD	INITIAL	
Evaluator	BJN BJN	08/26/94	08/26/94	BJN	waiting for phone call from Brett Cinsey
Inspector		08/26/94			
Supervisor	JAC	8/29	8/30 dcf	JAC	
Manager	Ray Bishop				
Typist	Judy Shocklee			JD	9-2-94 mailed
Comp. Entry	Kris Coulander	8-25-94	8-25-94	KCC	ENTERED KCC

Comment(i.e.hold for additional information)

*Permission To: Operate an air curtain destructor in an approved manner at 94th St.S. and 72nd E Ave Tulsa, OK

Estimated

*~~Allowable~~ Emission (LB/HR - TPY): TSP/47.6 - 9.14; PM10/ - ; SO2/ - ; NOx/ - ; CO/392 - 75.26; VOC/16.8 - 3.23;

TSP = 2688 x 0.0034 = 9.1392
CO = 2688 x 0.028 = 75.26
VOC = 2688 x 0.0012 = 3.23

OTHER

Remarks 48 days x 8 hours x 7 tons per day = 2688 tons

Applicable Technology: LAER ____ BACT ____ RACT ____
Applicable Regulations: PSD ____ NSPS ____ NESHAPS ____ SIP X

* Federal NA

* State 252:100-13-7(9)

* City 7/2

* County NA

SPECIAL CONDITION (YES) NO

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

Permit Number 94-111
Fee Attached Yes X No
Amount of Fee 50.00 CASH
Receipt Number 7119
Received 8/24/94
Typed _____ Mailed _____

Elizabeth Roberts

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Co., Inc. proposes to change the location of their _____ portable plant, model number and type Air Curtain Destructor; Cat 034-10 XW 7214 presently located at _____ (Geographical Location) to the new location at 94th St. S. & 72nd E. Ave. (NW¼, Sec. 23, T18N, R13E) (Geographical Location) and operate at that location from 8/25/94 (Date) to 10/31/94 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by _____ (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature BDLindsey Title Project Manager

Name (Typed or Printed) Brett D. Lindsey Telephone 918-266-6861

Company Street Address 4716 N. 193rd E. Ave

City, State, Zip Catoosa, OK 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

Post-it® Fax Note 7671	Date 29 Aug 94	# of pages ▶ 1
To Bret Lindsey	From Bernie Nally	
Co./Dept. SHerwood	Co. TCCHD	
Phone # 266-6861	Phone # 744-1000	
Fax # 266 6782	Fax # 744 6348	

SPECIAL CONDITIONS

A. Apply for Permit to Operate and/or Permit to Relocate for each pit used for burning of brush.

B. Permanent location for air curtain burner is not allowed.

C. Changes in air curtain burner, i.e. blower, plenum or engine, may require a new construction permit.

D. The appropriate Fire Department approval is required for each permit.

E. Burning is allowed only when the wind is no more than fifteen (15) miles per hour or less.

F. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

G. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

H. Complaints regarding operation may be cause for revocation of this permit.

I. Compliance to be determined by inspection.

J. Notify this office one day before operation begins.

****
*** ACTIVITY REPORT ***
****

TRANSMISSION OK

TX/RX NO.	2248
CONNECTION TEL	2666482
CONNECTION ID	SHERWOOD CONST.
START TIME	08/29 10:10
USAGE TIME	00'30
PAGES	1
RESULT	OK

engine, may require a new construction permit.

D. The appropriate Fire Department approval is required for each permit.

E. Burning is allowed only when the wind is no more than fifteen (15) miles per hour or less.

F. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

G. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

H. Complaints regarding operation may be cause for revocation of this permit.

I. Compliance to be determined by inspection.

J. Notify this office one day before operation begins.

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	~~T86-40~~	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE "COPY"

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

Date *June 25*, 19*86* Permit No. *T86-40*

The *Sherwood Construction*, having complied with the requirements of the law, is hereby granted permission to:

relocate and operate an air curtain destructor (834-10) in a correct manner at 2500 North Osage Drive, Tulsa, Oklahoma.

TOTAL ALLOWABLE EMISSIONS: 15.4 TPY TSP

SHERWOOD CONSTRUCTION COMPANY WILL COMPLY WITH THE FOLLOWING RULES, REGULATIONS AND ORDINANCES: Section 209 C-6 and Oklahoma Clean Air Act, Regulation 2.1.

subject to the Standard Provisions appearing on the back of this permit and the following or attached special conditions:

A) Fire Department notification is required.

B) Burning is to take place only during favorable wind conditions.

C) Width of the pit is not to exceed eight (8) feet.

This permit issued under authority, delegated to the Tulsa City-County Health Department by the Oklahoma State Department of Health, the Administrator of the Environmental Protection Agency and Section 214 of the City-County Air Pollution Regulations.

Roger D. Randolph Supervisor, Air Quality Control

John Myers Copeland Chief, Pollution Control Division

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

PO-REL

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

Permit Number T86-46
Fee Attached Yes ✓ No ____
Amount of Fee 50.00
Receipt Number 14304
Received 6-26-86
Typed 6-30-86 Mailed 7-7-86

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Company of Oklahoma, Inc. proposes to change the location of their Burner portable plant, model number and type Air Curtain Destructor #834-10 presently located at SE¼ Sect27 T20N R12E (Geographical Location) to the new location at SE¼ Sect22 T20N R12E (Geographical Location) and operate at that location from June 25, 1986 (Date) to August 15, 1986 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by Tulsa City County Health (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Rodney L. Abbott Title Project Engineer

Name (Typed or Printed) Rodney L Abbott Telephone 918) 266-6861

Company Street Address P.O. Box 974

City, State, Zip Catoosa, Oklahoma 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

TULSA CITY-COUNTY HEALTH DEPARTMENT
PERMIT APPLICATION SUMMARY
LOG SHEET INFORMATION

Receipt 14304

Permit No. T86-40

Fees: Const. ____ Operate ____

Applicant Firm Sherwood Construction / Relocate $50.00

Location of Proposed Source SE 1/4, Section 22, T20N, R12E

		Permit Application For:	
		Const./Mod.	Operate/Relocate
	Evaluator Assigned		Barnes
	Coordination Required with: (Return to Evaluator)		
	Monitoring		
	Enforcement		
	Engineering		WBJ 6/30/86
Col. 3:	Date Application Received 6-26-86		
Col. 7:	Date Evaluation Complete		
Col. 8:	Date Inspection Complete		6/25/86 JB
Col. 9:	Tests Req./Compl.		no
Col. 10-11:	Public Review Required?		no
	Date Completed		—
Col. 13:	Additional Fee Required?		no
Col. 19-21:	Pending Action/Date		—

Col. 15-28: Description of Proposed Facility/Emission Unit:

Air Curtain Destructor (834-10) (Co. #99-95 Cat)

Col. 22 Pollutant	Col. 23 Potential	Col. 24 Allowable	Col. 25 Est. or Actual
Organic Material			Based on 7T/hr burning rate: 24.5 lbs/hr. NMHC
TSP			329 " "
CO			889 " "
SOx			
Other (Specify)			

Total Emissions, all Pollutants ____

Permit No. T86-40

Evaluator

Proposed Pollution Controls Meet: (List applicable regulations or ordinances and also non-applicability).

1. Applicable Regs: City _____
   County _____
   State Reg. 2.1
   NSPS _____
   NESHAPS _____

2. Applicable Technology: LAER _____ BACT _____ RACT _____

3. Location Area: Non-attainment _____ Unclass. _____ Attainment _____

Calculations (attach)

_____

_____

DRAFT PERMIT STATEMENTS

1. Is Hereby granted permission to: Relocate and operate in a correct manner an Air Curtain Destructor (834-10) at 2500 N. Osage Dr., Tulsa, OK.

Total allowable emissions are: _____ lbs/hr. _____ tons/yr. For _____ pollutant

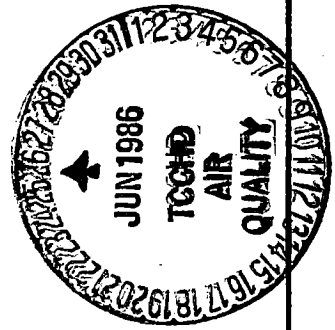
2. The following special conditions:

Same as P/C

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
6/25		Burner Permit				50.00
						#131
						001 B13020



SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	T88-64
T88-88	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

TULSA CITY-COUNTY HEALTH DEPARTMENT

4616 East 15th • 918 744-1000
Tulsa, Oklahoma 74112

File

August 10, 1987

Mr. Harry Howard
Sherwood construction Company
Post Office Box 974
Catoosa, Oklahoma 74015

RE: Dust Complaints - 11th Street Bridge Repair

Dear Mr. Howard:

As a result of the dust complaints the Tulsa City-County Health Department received in the past few weeks, we have met with you several times. The summary below defines the problem points and the changes your have made.

1. Vacuum truck operation was the most visible source of dust. Your addition of the water into the suction nozzle has eliminated most of the dust from this source.

2. The sweeper was a minor source and your slowing the sweeper speed will make this operation acceptable.

3. The addition of a bag on the mixer exhaust eliminated 95% of the dust emitted and is satisfactory.

4. The mixer continues to be somewhat of a problem, your final solution of submerging the exhaust hose in a barrel of water with canvas over the top of the water drum should minimize the problem. The storage (silo) truck manufacturer probably produces dust control equipment for the storage (silo) truck. We asked that you consider purchasing this type of equipment as soon as possible.

5. The sandblasting operations is a problem which does not appear to have a good solution. The moveable barriers you use appear to be somewhat effective. The important thing is for you to continue as you have in the past, to sandblast only when the wind is in the right direction. While this operation remains in violation, we are issuing a temporary administrative variance in

order that you can maintain the high product standards necessary for this job.

Harry, we appreciate the way you have cooperated with us in trying to minimize this dust problem. Your solutions have been excellent and accomplished in a minimum amount of time.

Sincerely,

J. H. Van Sandt
Air Quality Control

JHVS:kcc

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

"COPY"

Date July 31, 19 87 Permit No. T87-84

The Sherwood Construction, having complied with the requirements of the law, is hereby granted permission to:

operate an air curtain destructor at 2800 North Yale Avenue, Tulsa, Oklahoma.

TOTAL ESTIMATED EMISSIONS: 889 lbs/hr CO
329 lbs/hr TSP
245 lbs/hr VOC

SHERWOOD CONSTRUCTION MUST COMPLY WITH THE FOLLOWING:

City and County of Tulsa Clean Air Ordinances, Rules and Regulations, Sections 209 and 214 and the Oklahoma Clean Air Act, Regulations 1.4 and 2.1.

COMPLIANCE WILL BE DETERMINED BY INSPECTION

subject to the Standard Provisions appearing on the back of this permit and the following or attached special conditions:

A. Width of the pit is not to exceed eight (8) feet.
B. Fire Department approval is required.
C. Burning is to take place only during favorable wind conditions.
D. Charging is to be done only between the hours of 8:00 A.M. and 5:00 P.M.
E. The operator is to be present at all times during burning.
F. Compliance to be determined by inspection.

This permit issued under authority, delegated to the Tulsa City-County Health Department by the Oklahoma State Department of Health, the Administrator of the Environmental Protection Agency and Section 214 of the City-County Air Pollution Regulations.

Roger D. Randolph 7/31/87 Supervisor, Air Quality Control

[signature] 7/31/87 Chief, Pollution Control Division

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

PO-REL.

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

"ORIGINAL"

Permit Number T87-84
Fee Attached Yes ✓ No
Amount of Fee 50.00
Receipt Number 01824
Received 1-27-87
Typed 2-3-87 Mailed BC

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Co. of Oklahoma proposes to change the location of their Air Curtain Destructor portable plant, model number and type Air Curtain Destructor Mod 034-10 presently located at NA (Geographical Location) to the new location at SE¼ Sect 21 T20N R13E ie: Yale + Apache (Geographical Location) and operate at that location from July 27 1987 (Date) to Aug 27, 1987 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by TCCHD (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

"ORIGINAL"

Signature Rodney L. Abbott Title Project Engineer

Name (Typed or Printed) Rodney L. Abbott Telephone 266-6861

Company Street Address P.O. Box 974

City, State, Zip Catoosa, Ok. 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

ROUTING AND REVIEW SHEET

PC ___ PO ✓ PERMIT # T87-84

(t) SOURCE NAME Sherwood Construction

(t) LOCATED AT Noyole & Apache Tulsa, Oklahoma

SOURCE TYPE Air Curtain Destructor, Model 1034-10 SE/4, Section 21, T20N, R13

DATE RECEIVED 7-27-87 FEE RECEIVED 50.00 FEES OK ____

RECEIPT # 01824 COMPANY CHECK # 1254 CALCULATED FEE ____

	NAME	DATE REC'D	DATE APPR'D	INITIAL
EVALUATOR	Barrows	7/27/87	7/28/87	B
INSPECTOR	"	7/28/87	7/28/87	B
SOURCE TESTER	NA			
SUPERVISOR	Rejected	7/29/87	7/29/87	RSR
TYPIST	PJW			

HAS PERMIT DATA BEEN ENTERED INTO COMPUTER ???____

COMMENTS (i.e. hold for additional information)____

(t) PERMISSION TO: Operate an air curtain destructor at 2800 N. Yale Avenue, Tulsa, Oklahoma.

(t) ALLOWABLE EMISSIONS (TPY): TSP/ 329 lbs/hr ; PM10/____ ; SO2/____ ;
CO/ 889 lbs/hr ; VOC/ 245 lbs/hr ; NOx ____ ; OTHER ____/____

REMARKS: Emissions based on 7 T/hr burn rate.

APPLICABLE TECHNOLOGY: LAER ____ BACT ✓ RACT ____

APPLICABLE REGULATIONS: PSD ____ NSPS ____ NESHAPS ____ SIP ____

(t) STATE 1.4, 2.1 (t) CITY/COUNTY Sect. 209, 214

(t) SPECIAL CONDITIONS See back of sheet

HAVE YOU DONE THE FOLLOWING?

[V] 1. Specify, in permits, which Federal and State Regulations apply, when Regulations are used to limit emissions.

[V] 2. Specify, in permits, the method to determine compliance and the date by which compliance will be demonstrated on all major sources and on minor sources, as appropriate.

N/A 3. Comply with the EPA guidelines for modeling and interpretations, in accordance with the Oklahoma PSD SIP, including determinations of applicability, interpretation/use of air quality models and monitoring methods.

[V] 4. Ensure that applicants subject to Oklahoma Regulation 1.4.4 submit, in the permit application, an analysis of BACT, taking into account energy, environmental, costs and economic impacts of alternative control systems, for each pollutant emitted in significant quantities and for each applicable emission point.

[V] 5. Document and verify the methodology used to ensure that the proposed emissions will not violate the NAAQS and the applicable PSD increments, as appropriate. (Modeling in some cases.)

[V] 6. Comply with public participation requirements of Oklahoma Regulation 1.4 and be fully responsive to comments and testimony.

Special Conditions

A. Width of pit is not to exceed eight (8) feet.
B. Fire department approval is required.
C. Burning is to take place only during favorable weild conditions.
D. Charging is to be done only between the hours of 8:00 a.m. and 5:00 P.M. at all times
E. The Operator is to be present during burning.
F. Compliance to be determined by inspection.

T87-84

SHERWOOD
CONSTRUCTION CO. OF OKLAHOMA, INC.

918-266-6861
P.O. Box 974
Catoosa, Oklahoma 74015

JOHN CURTIS, President
ALLEN PAYNE, Vice-President
HOWARD SHERWOOD, Secretary
HERB VON HOLLEN, Treasurer

Job #138

July 24, 1987

Tulsa City-County Health Dept.
Air Quality Control Programs
ATTENTION: Air Permits
4616 E. 15th St.
Tulsa, Oklahoma 74112

Dear Sir:

Please find the enclosed application for burning within the Tulsa city limits. This is for pit burning with an air curtain destructor. The material being burned is cleared timber for City of Tulsa Project #861108, North Yale Avenue. All applicable safety standards and local ordinance will be strictly adhered to for this type burning.

If you have any questions, please feel free to contact me.

Sincerely,

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

Rodney L. Abbott
Project Engineer

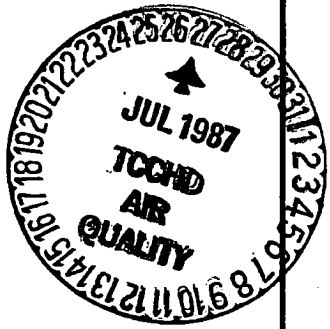
RLA:bjr

cc: File

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
7/24		Burn permit	50.00			



#138
001
B10000

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

SHERWOOD CONSTRUCTION COMPANY
OF OKLAHOMA, INC.
PO BOX 974 918-266-6861
CATOOSA, OK 74015

No 1254

86-138
1031

1st BANK of Catoosa
P.O.DRAWER L PH.918-266-2271
CATOOSA, OK. 74015

July 24, 19 87

PAY The Sum of 50.00 DOLLARS $ 50.00

TO THE ORDER OF Tulsa City County Health Dept.

John E Carter

⑈001254⑈ ⑆103101385⑆ ⑈12 766 21⑈

M - W - B - HARLAND NO. 908

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
7/24		Burn permit	50.00			

JUL 1987 TCCHD AIR QUALITY

#138
001
B1000

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	~~T88-64~~
T88-88	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

"COPY"

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

DATE: May 26, 1988 PERMIT NUMBER: T88-64

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED having complied with the requirements of the law, is hereby granted permission to relocate and operate an air curtain destructor, Model 034-10 at 9800 South Memorial Drive, Tulsa, Oklahoma, 74133.

TOTAL ESTIMATED EMISSIONS: 0.0034 TPY TSP
0.028 TPY CO
0.0012 TPY VOC

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED MUST COMPLY WITH THE FOLLOWING CITY-COUNTY AND STATE RULES, REGULATIONS AND/OR ORDINANCES, THE STANDARD PROVISIONS ON THE BACK OF THIS PERMIT AND THE FOLLOWING SPECIAL CONDITIONS:

The City and County of Tulsa Clean Air Rules, Regulations and/or Ordinances, Sections 209 and 214 and the Oklahoma Clean Air Act, Regulations 1.4 and 2.1.

A. The appropriate Fire Department approval is required.

B. Burning is allowed only when the wind is no more than fifteen (15) miles per hour.

C. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

D. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet.

E. Complaints regarding operation may be cause for revocation of this permit.

F. Compliance to be determined by inspection.

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF HEALTH, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTION 214 OF THE CITY-COUNTY AIR POLLUTION REGULATIONS.

John Van Sandt DATE _____
Supervisor, Air Quality Control

Jack Walling DATE 05-26-88
Chief, Environmental Services

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

PO-REL

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

Permit Number T88-64
Fee Attached Yes — No
Amount of Fee 50.00
Receipt Number 2283
Received 5-19-88
Typed 5/26/88 Mailed
Their Check 3054

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Const. Co. of OK, Inc. proposes to change the location of their Air Curtain Destructor portable plant, model number and type Air Curtain Destructor Modle 034-10 presently located at N/A (Geographical Location) to the new location at NE¼ of the SE¼ Section 23 T 18 N R 13 E (Geographical Location) and operate at that location from June 1, 1988 (Date) to August 1, 1988 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by _____ (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Rodney L. Abbott Title Project Engineer

Name (Typed or Printed) Rodney L. Abbott Telephone 918-266-6861

Company Street Address P.O. Box 974

City, State, Zip Catoosa, OK. 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

ROUTING AND REVIEW SHEET

PC ___ PO — Relocate | PERMIT # T88-64

(t) SOURCE NAME Sherwood Construction

(t) LOCATED AT 98th Street South & Memorial Drive (NE¼ of the SE¼, Section 23 T18 N R13 E

SOURCE TYPE Open pit incinerator

DATE RECEIVED 5-19-88 FEE RECEIVED 50. FEES OK PC

RECEIPT # 2283 COMPANY CHECK # 2054 CALCULATED FEE 50.

	NAME	DATE REC'D	DATE APPR'D	INITIAL
EVALUATOR	Blam Sandt	5/24/88	5/24/88	JHV
INSPECTOR	Barrans	5/20	5/23/88	B
SOURCE TESTER				
SUPERVISOR				
TYPIST	Kris	5-26-88	5-26-88	PR

HAS PERMIT DATA BEEN ENTERED INTO COMPUTER ??? 5/19/88 DMJ

COMMENTS (i.e. hold for additional information) ___

(t) PERMISSION TO: Operate an Air Curtain destructor, Model 034-10 at 9800 S. Memorial Drive, Tulsa, OK, 74133.

(t) ALLOWABLE EMISSIONS (TPY): TSP/.0034; PM10/___; SO2/___; CO/.028; VOC/.0012; NOx ___; OTHER ___/___

REMARKS: ~~[illegible]~~ Figures above are in tons of emissions per ton of brush burned.

APPLICABLE TECHNOLOGY: LAER ___ BACT ___ RACT ___

APPLICABLE REGULATIONS: PSD ___ NSPS ___ NESHAPS ___ SIP ___

(t) STATE 1.4, 2.1 (t) CITY/COUNTY 214, 209

(t) SPECIAL CONDITIONS See back of sheet

HAVE YOU DONE THE FOLLOWING?

[✓] 1. Specify, in permits, which Federal and State Regulations apply, when Regulations are used to limit emissions.

[✓] 2. Specify, in permits, the method to determine compliance and the date by which compliance will be demonstrated on all major sources and on minor sources, as appropriate.

[✓] 3. Comply with the EPA guidelines for modeling and interpretations, in accordance with the Oklahoma PSD SIP, including determinations of applicability, interpretation/use of air quality models and monitoring methods.

[✓] 4. Ensure that applicants subject to Oklahoma Regulation 1.4.4 submit, in the permit application, an analysis of BACT, taking into account energy, environmental, costs and economic impacts of alternative control systems, for each pollutant emitted in significant quantities and for each applicable emission point.

[✓] 5. Document and verify the methodology used to ensure that the proposed emissions will not violate the NAAQS and the applicable PSD increments, as appropriate. (Modeling in some cases.)

[✓] 6. Comply with public participation requirements of Oklahoma Regulation 1.4 and be fully responsive to comments and testimony.

Special Conditions

A. The appropriate fire dept. approval is required.
B. Burning is allowed only when the wind is no more than fifteen (15) miles per hour.
C. The length of the pit can only be equal to the length of the plenum which directs air across the pit.
D. The width of the pit must not exceed eight (8) feet, and the depth must be between twelve (12) and fifteen (15) feet.
E. Complaints regarding the operation may be cause for revocation of this Permit.
F. Compliance to be determined by inspection.

THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA

918-266-6861
P.O. Box 974
Cataasa, Oklahama 74015

SHERWOOD
CONSTRUCTION CO. OF OKLAHOMA, INC.

MAY 19 9 52 AM '88

JOHN CURTIS, President
ALLEN PAYNE, Vice-President
HOWARD SHERWOOD, Secretary
HERB VON HOLLEN, Treasurer

Job#150

May 17, 1988

Tulsa City-County Health Dept.
Air Quality Control Programs
ATTENTION: Air Permits
4616 E. 15th St.
Tulsa, OK. 74112

Dear Sir:

Please find the enclosed application for burning within the Tulsa City limits. This is for pit burning with an air curtain destructor. The material being burned is cleared timber for City of Tulsa Project #862226 Bridle Trails Detention Facility. All applicable safety standards and local ordinance will be strictly adhered to for this type burning.

If you have any questions, please feel free to contact me.

Sincerely,

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

Rodney L. Abbott
Project Engineer

RLA:bjr

cc: file

AN EQUAL OPPORTUNITY EMPLOYER

RECEIPT Date 5-19 19 88 2283

Received From Sherwood Construction

Address for approx. 98th St. South and Memorial Drive Dollars $ 50.00

For Pto Relocate Open Pit incinerator T88-604

ACCOUNT			HOW PAID		
AMT. OF ACCOUNT			CASH		
AMT. PAID			CHECK	50	—
BALANCE DUE			MONEY ORDER		

OK 2054

By PC

8K800 REDIFORM®

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
		Permit				
					150	001 B10000

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

SHERWOOD CONSTRUCTION COMPANY
OF OKLAHOMA, INC.
PO BOX 974 918-266-6861
CATOOSA, OK 74015

№ 2054

86-138
1031

1st BANK of Catoosa
P.O. DRAWER L PH. 918-266-2271
CATOOSA, OK. 74015

May 18 1988

PAY THE SUM OF FIFTY AND 00/100

DOLLARS $50.00

TO THE ORDER OF
Tulsa-City County Health Dept.
4616 E. 15th St.
Tulsa, OK 74112

⑈002054⑈ ⑆103101385⑆ ⑈12 766 2⑈

M - W - V - HARLAND NO. 605

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
		Permit			150	001 B1000

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

FAC 3421

MARK S. COLEMAN
Executive Director

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :

T86-27	T86-40	T87-84	T88-64
~~T88-88~~	T90-120	T90-133	T91-045
T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE

"COPY"

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

Permit

DATE: July 18, 1988 PERMIT NUMBER: T88-88

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED having complied with the requirements of the law, is hereby granted permission to relocate and operate an air curtain destructor at 131st Street and South Yale, Jenks, Oklahoma, 74037.

TOTAL ESTIMATED EMISSIONS: .0034 TPY TSP
.028 TPY CO
.0012 TPY VOC

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED MUST COMPLY WITH THE FOLLOWING CITY-COUNTY AND STATE RULES, REGULATIONS AND/OR ORDINANCES, THE STANDARD PROVISIONS ON THE BACK OF THIS PERMIT AND THE FOLLOWING SPECIAL CONDITIONS:

The City and County of Tulsa Clean Air Rules, Regulations and/or Ordinances, Sections 209 and 214 and the Oklahoma Clean Air Act, Regulations 1.4 and 2.1.

A. The appropriate Fire Department approval is required.

B. Burning is allowed only when the wind is no more than fifteen (15) miles per hour or less.

C. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

D. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet.

E. Complaints regarding operation may be cause for revocation of this permit.

F. Compliance to be determined by inspection.

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF HEALTH, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTION 214 OF THE CITY-COUNTY AIR POLLUTION REGULATIONS.

Jordan Sandt DATE 7/18/88
Supervisor, Air Quality Control

Mark Walling DATE 07/18/88
Chief, Environmental Services

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

PO-REL

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

Permit Number T88-88
Fee Attached Yes ✓ No ____
Amount of Fee 50.00
Receipt Number 2612
Received 7-12-88
Typed 7/88 Mailed ____
OK 2292

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Company of Ok., Inc. proposes to change the location of their Air Curtain Destructor portable plant, model number and type A C D 034-10 presently located at Bridle Trails Detention Fac. (98th & S. Memorial)
(Geographical Location)

to the new location at 131st and S. Yale (Kimberly-Clark)
(Geographical Location)

and operate at that location from July 20, 1988 (Date) to August 20, 1988 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by _____
(Agency Issuing Permit)

and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature John R Curtis Title President

Name (Typed or Printed) John R. Curtis Telephone 918)266-6861

Company Street Address P.O. Box 974

City, State, Zip Catoosa, Ok. 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

ROUTING AND REVIEW SHEET

PC ___ PO ~~—~~ Relocate | PERMIT # T88-88

(t) SOURCE NAME Sherwood Construction

(t) LOCATED AT 131st St. So. & Yale Ave Kimberly-Clark

SOURCE TYPE Open Pit Incinerator

DATE RECEIVED 7-12-88 FEE RECEIVED 50.- FEES OK PR

RECEIPT # 2612 COMPANY CHECK # 2292 CALCULATED FEE 50.

	NAME	DATE REC'D	DATE APPR'D	INITIAL
EVALUATOR	Van Sandt	7-14-88	7/13/88	
INSPECTOR	Barnes	7-13-88	7-13-88	B
SOURCE TESTER				
SUPERVISOR				
TYPIST	Bno	7-15-88	7-18-88 Noon	PR

HAS PERMIT DATA BEEN ENTERED INTO COMPUTER ??? FTI Yes 7-18-88 JSC

COMMENTS (i.e. hold for additional information) _____

(t) PERMISSION TO: Operate an open pit incinerator at the Kimberly-Clark location at 13600 S. Yale, Tulsa County, Oklahoma.

(t) ALLOWABLE EMISSIONS (TPY): TSP/.0034 ; PM10/____ ; SO2/____ ;

CO/.028 ; VOC/.0012 ; NOx ____ ; OTHER ____/____

REMARKS: Figures above are in tons of emissions per Ton of Brush Burned.

APPLICABLE TECHNOLOGY: LAER ____ BACT ____ RACT ____

APPLICABLE REGULATIONS: PSD ___ NSPS ___ NESHAPS ___ SIP ___

(t) STATE 1,4,2,1 (t) CITY/COUNTY 214,209

(t) SPECIAL CONDITIONS See back of sheet

HAVE YOU DONE THE FOLLOWING?

[✓] 1. Specify, in permits, which Federal and State Regulations apply, when Regulations are used to limit emissions.

[✓] 2. Specify, in permits, the method to determine compliance and the date by which compliance will be demonstrated on all major sources and on minor sources, as appropriate.

[N/A] 3. Comply with the EPA guidelines for modeling and interpretations, in accordance with the Oklahoma PSD SIP, including determinations of applicability, interpretation/use of air quality models and monitoring methods.

[✓] 4. Ensure that applicants subject to Oklahoma Regulation 1.4.4 submit, in the permit application, an analysis of BACT, taking into account energy, environmental, costs and economic impacts of alternative control systems, for each pollutant emitted in significant quantities and for each applicable emission point.

[N/A] 5. Document and verify the methodology used to ensure that the proposed emissions will not violate the NAAQS and the applicable PSD increments, as appropriate. (Modeling in some cases.)

[✓] 6. Comply with public participation requirements of Oklahoma Regulation 1.4 and be fully responsive to comments and testimony.

Special Conditions

same as T88-64

T88-88

918-266-6861
P.O. Box 974
Cotooso, Oklohomo 74015

JUL 12 9 57 AM '88

SHERWOOD
CONSTRUCTION CO. OF OKLAHOMA, INC.

JOHN CURTIS, President
ALLEN PAYNE, Vice-President
HOWARD SHERWOOD, Secretary
HERB VON HOLLEN, Treasurer

July 11, 1988

Tulsa City-County Health Dept.
Air Quality Control Programs
ATTENTION: Air Permits
4616 E. 15th St.
Tulsa, OK 74112

Dear Sir:

Please find the enclosed application for burning within the Tulsa City limits. This is for pit burning with an air curtian destructor. The material being burned is cleared timber for the Kimberly-Clark Project at 131st and S. Yale. All applicable safety standard and local ordinance will be strictly adhered to for this type burning.

If you have any questions, please feel free to contact me.

Sincerely,

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

John R. Curtis
President

JRC:bjr

cc: File

AN EQUAL OPPORTUNITY EMPLOYER

OPEN BURNING VARIANCE APPLICATION

Tulsa City-County Health Department
Air Quality Control
4616 East 15th Street
Tulsa, Oklahoma 74112-6122
(918) 744-1000

DATE 7-13-88

FILE NUMBER _____

NAME Sherwood Construction Co. TELEPHONE 266-6861

MAILING ADDRESS Box 994, Catoosa, Ok. ZIP 74015

BURNING LOCATION 13600 S. Yale ZIP _____

TYPE OF WASTE:

A. Land Clearance — Trees & Brush

B. Trade Waste — _____

C. Agricultural Waste — _____

D. Other — _____

AMOUNT OF WASTE Several Piles of Cleared Trees

HOURS OF BURNING 7:30 a.m. until 5:00 P.M.

DATE(S) OF BURNING Week of 7-11-88 (7-14-88)

FIRE DEPARTMENT APPROVAL YES V NO _____

REGULATIONS REGARDING ACTIONS: State, 1.4, Local, 2.14

COMMENTS: Area is ideal for burning. Land cleared all around, and there are no residences nearby. Open Pit incinerator set up for use.

APPROVED V DISAPPROVED _____

ENFORCEMENT OFFICER SIGNATURE Grady E. Barrera Jr.

DATE: 7/13/88

SUPERVISOR SIGNATURE Jim Van Landt

DATE: _____

AQ87194

Leroy Asbury

RECEIPT Date July 12 19 88 2612

Received From Sherwood Construction

Address for Kimberly-Clark

13 1st St So & So Gale Ave. Dollars $ 50. 00

For Open Pit Incinerator

T88 88

ACCOUNT			HOW PAID		
AMT. OF ACCOUNT			CASH		
AMT. PAID			CHECK	50	—
BALANCE DUE			MONEY ORDER		

CK 2292

By KC

8K800 REDIFORM®

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
7/11		Burn Permit	50.00			

T88-88

151
003 B10000

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

SHERWOOD CONSTRUCTION COMPANY
OF OKLAHOMA, INC.
PO BOX 974 918-266-6881
CATOOSA, OK 74015

№ 2292

86-138
1031

1st Bank of Catoosa
P.O. DRAWER L
CATOOSA, OKLAHOMA, 74015

July 11, 19 88

PAY THE SUM 50 DOLLARS 00 CTS DOLLARS $ 50.00

TO THE ORDER OF Tulsa City County Health Dept.

John R Curtis

⑈002292⑈ ⑆103101385⑆ ⑈12 766 2⑈

M · W · V · HARLAND NO. 605

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW. IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

INVOICE DATE	INVOICE NO.	DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS DISCOUNT	DEDUCTIONS FREIGHT	NET AMOUNT
7/11		Burn Permit	50.00	T88-88		151 003 B10000

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.

MARK S. COLEMAN
Executive Director

FAC 3421

FRANK KEATING
Governor

State of Oklahoma
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 28, 1996

SherwoodConstruction Company
4716 North 193rd East Avenue
Catoosa, Oklahoma 74015

RE: PERMIT NUMBERS :	T86-27	T86-40	T87-84	T88-64
	T88-88	T90-120	T90-133	T91-045
	T93-063	T94-008	T94-111	

Dear Sir or Madam:

Our office has not received any indication of further need for the referenced permits.

The referenced permits are no longer effective and are now cancelled.

If we can be of further assistance or you have any questions, please contact me at (918) 488-8895, extension 243.

Respectfully,

Herb Neumann

Herb Neumann, DEQ
Regional Office at Tulsa

HN:lgp

recycled paper

PERMIT TO OPERATE

AIR QUALITY CONTROL SECTION
POLLUTION CONTROL DIVISION
TULSA CITY-COUNTY HEALTH DEPT.
4616 EAST 15th STREET
TULSA, OK 74112

permit

DATE: November 9, 1990 PERMIT NUMBER: T90-120

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED, having complied with the requirements of the law, is hereby granted permission to relocate and operate an open pit incinerator for the disposal of trees from Highway 169 between 71st Street South and 91st Street South, Tulsa, Oklahoma.

TOTAL ESTIMATED EMISSIONS: 2.86 TPY TSP
23.52 TPY CO
1.0 TPY VOC

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INCORPORATED MUST COMPLY WITH THE FOLLOWING CITY-COUNTY AND STATE RULES, REGULATIONS AND/OR ORDINANCES, THE STANDARD PROVISIONS ON THE BACK OF THIS PERMIT AND THE ATTACHED SPECIAL CONDITIONS:

The City of Tulsa Clean Air Code, Title 17, Chapter 7, Sections 707 and 712, County of Tulsa Clean Air Rules and Regulations, Under Authority of Title 63, Oklahoma Statues, Sections 207, 209 and 214 and the Oklahoma Clean Air Act, Regulations 1.4, 2.1 and 3.1.

SEE ATTACHED SHEET FOR SPECIAL CONDITIONS

THIS PERMIT IS ISSUED UNDER THE AUTHORITY DELEGATED TO THE TULSA CITY-COUNTY HEALTH DEPARTMENT BY THE OKLAHOMA STATE DEPARTMENT OF HEALTH, THE ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY AND SECTIONS 214 AND 712 OF THE CITY-COUNTY AIR POLLUTION REGULATIONS.

W. Ray Bishop DATE 11/11/90
Manager, Air Quality Control

Jack Walling DATE 11-11-90
Chief, Environmental Services

STANDARD PROVISIONS

1. If any statement or presentation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder. However, the application may be amended and a supplemental written permit issued by the department.

2. Any modification of operating procedures from those used during the final testing of equipment which effects emissions of air contaminants, without notification of the Air Quality Control Section, shall be grounds for revocation.

3. Any agent of the Tulsa City-County Health Department shall have the right and authority to inspect, at reasonable times, the source(s) for which this permit is issued.

4. This permit shall not be construed to affect the title of the premises upon which the equipment is located, nor does it release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued. This permit does not release the permittee from compliance with other applicable rules, regulations and statutes of Oklahoma or with applicable local laws, rules, regulations or ordinances.

5. This permit is subject to periodic review, change, or additional fees necessary to fulfill the intent and purposes of the Oklahoma Clean Air Act and City and County rules and regulations.

6. In complying with the provisions of Regulation 1.5 Oklahoma Clean Air Act or the City-County Air Pollution regulations, the person in charge of the facility shall:

   a. Immediately notify the Director whenever an air pollution emergency exists.

   b. Immediately notify Air Quality Control in event of a malfunction of any emission source, air pollution control equipment or related facility which may cause the emission of air contaminants in violation of these ordinances or permit limitations.

   c. Submit written reports of the above events to or request variances in accordance with the above cited regulations from the Air Quality Control Section.

7. This permit incorporates, by reference, correspondence and information submitted by the applicant and incorporates the requirements established in the permit to construct.

8. THIS PERMIT IS NOT TRANSFERABLE TO ANOTHER PERSON OR RELOCATION.

SPECIAL CONDITIONS
SHERWOOD CONSTRUCTION
PERMIT TO OPERATE
T90-120

A. Apply for Permit to Operate and/or Permit to Relocate for each pit used for burning of brush.

B. Permanent location for air curtain burner is not allowed.

C. Changes in air curtain burner, i.e. blower, plenum or engine, may require a new construction permit.

D. The appropriate Fire Department approval is required for each permit.

E. Burning is allowed only when the wind is no more than fifteen (15) miles per hour or less.

F. The length of the pit can only be equal to the length of the plenum which directs air across the pit.

G. The width must not exceed eight (8) feet and the depth must be between twelve (12) and fifteen (15) feet. Both ends of the pit must be closed.

H. Complaints regarding operation may be cause for revocation of this permit.

I. Compliance to be determined by inspection.

J. **Notify this office one day before operation begins.**

ROUTING AND REVIEW SHEET

PC ___ PO Relocate | PERMIT # T90-120

(t) SOURCE NAME Sherwood Construction

(t) LOCATED AT NW1/4 of the SE1/4 Sec 7 T 18N R 14 E { Off 169 Between 71st & 91st

SOURCE TYPE Open pit incineration

DATE RECEIVED 11-6-90 FEE RECEIVED 100. FEES OK ←

RECEIPT # 147732 COMPANY CHECK # 5952 Holdover from request relocate CALCULATED FEE 50.00

	NAME	DATE REC'D	DATE APPR'D	INITIAL
EVALUATOR	Castleberry	11-9-90	11-9-90	JFC
INSPECTOR	Castleberry	11-9-90	11-9-90	JFC
SOURCE TESTER				
SUPERVISOR	JW	11-9-90	11/9/90	JW
TYPIST	RCC			PCC

HAS PERMIT DATA BEEN ENTERED INTO COMPUTER ??? yes RCC

COMMENTS (i.e. hold for additional information) insp 11-9-90 ok permit

(t) PERMISSION TO: operate an open pit incinerator for the disposal of trees off Hiway 169 between 71 St So. and 91 St. So. Tulsa

(t) ALLOWABLE EMISSIONS (TPY): TSP/2.86 ; PM10/___ ; SO2/___ ; CO/23.52 ; VOC/1.0 ; NOx ___ ; OTHER ___/___

REMARKS: T/C 2 @ 20 hrs * 7 T/hr = 840 Tons

0.0034 Tons TSP/ton of brush & 0.028 Tons CO/ton brush 0.0012 Tons VOC/Ton Brush

APPLICABLE TECHNOLOGY: LAER ___ BACT ___ RACT X

APPLICABLE REGULATIONS: PSD ___ NSPS ___ NESHAPS ___ SIP X

(t) STATE 3.1, 3.1, 1.4 (t) CITY/COUNTY 209, 212 207

(t) SPECIAL CONDITIONS Std Open Pit Cond.

HAVE YOU DONE THE FOLLOWING?

[ ] 1. Specify, in permits, which Federal and State Regulations apply, when Regulations are used to limit emissions.

[ ] 2. Specify, in permits, the method to determine compliance and the date by which compliance will be demonstrated on all major sources and on minor sources, as appropriate.

[ ] 3. Comply with the EPA guidelines for modeling and interpretations, in accordance with the Oklahoma PSD SIP, including determinations of applicability, interpretation/use of air quality models and monitoring methods.

[ ] 4. Ensure that applicants subject to Oklahoma Regulation 1.4.4 submit, in the permit application, an analysis of BACT, taking into account energy, environmental, costs and economic impacts of alternative control systems, for each pollutant emitted in significant quantities and for each applicable emission point.

[ ] 5. Document and verify the methodology used to ensure that the proposed emissions will not violate the NAAQS and the applicable PSD increments, as appropriate. (Modeling in some cases.)

[ ] 6. Comply with public participation requirements of Oklahoma Regulation 1.4 and be fully responsive to comments and testimony.

Tulsa City-County Health Department
Air Quality Control Programs
Attention: Air Permits
4616 East 15th Street
Tulsa, Oklahoma 74112
(918) 744-1000 Extension 321

Permit Number T90-120
Fee Attached Yes ___ No ___
Amount of Fee 50.00
Receipt Number 747732
Received 11-6-90
Typed 11-9-90 Mailed 11-9-90
CK 5952

APPLICATION FOR PERMIT TO OPERATE (RELOCATE)

(Submit in Duplicate)

The Sherwood Construction Co. of OK, Inc. proposes to change the location of their Air Curtain Destructor portable plant, model number and type Air Curtain Destructor Model 034-10 presently located at n/a (Geographical Location) to the new location at NW ¼ of the SE ¼ SEC 7 T 18N R 14 E (Geographical Location) and operate at that location from Nov 14 1990 (Date) to Jan 14 1991 (Date) and as required by appropriate regulations, hereby makes appliation to Tulsa City-County Health Department for approval to change location.

This is to certify that the plant was permitted per Permit to Construct Number _____ issued by _____ (Agency Issuing Permit) and that the plant is operational and meets all applicable regulations. This also is to certify that the proposed site has all necessary utilities such that the control equipment shall be operated so that all emission limitations, including visible emissions, are met.

Signature Tom Zimmerman Title Project Engineer

Name (Typed or Printed) Tom Zimmerman Telephone (198) 266-6861

Company Street Address 4716 N. 193rd E. Ave

City, State, Zip Catoosa, OK 74015

REFERENCES: City of Tulsa Clean Air Ordinance, Title 17, Chapter 9, Tulsa Revised Ordinances; County of Tulsa Clean Air Rules and Regulations per Title 63, Oklahoma Statues 1-210 and 1-213; Oklahoma Clean Air Act Rules and Regulations, Title 63 O.S. Supp 1981, Sec-1802 as amended and Title 75 O.S. 1971 Sec-301-325 as amended.

T90-120

Fax # (918) 266-6482

918-266-6861
P.O. Box 974
Cataosa, Oklahoma 74015

SHERWOOD
CONSTRUCTION CO. OF OKLAHOMA, INC.

JOHN CURTIS, President
ALLEN PAYNE, Vice-President
HOWARD SHERWOOD, Secretary
HERB VON HOLLEN, Treasurer

November 6, 1990

Tulsa City - County Health Dept.
Air Quality COntrol Programs
ATTENTION: Air Permits
4616 E. 15th Street
Tulsa, OK 74112

Dear Sir:

Please find the enclosed application for burning within the City of Tulsa limits. The application is for pit burning and an air curtain destructor. The material being burned is cleared timber for Oklahoma Department of Transportation Project MAF 521(500) Mingo Valley Expressway from 71st to 91st Street South. All applicable safety standards and local ordinances for this type of burning will be strictly adhered to.

Respectfully,
SHERWOOD CONST. CO. OF OK, INC.

Tom Zimmerman
Project Engineer

11-9-90
T/C
15-18

TZ:ck

cc: file
job file

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, NC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE		DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS		NET AMOUNT
DATE	NO.			DISCOUNT	FREIGHT	
		Permit R-747732		460 173	002 B10000	

V-4

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, INC.
P. O. BOX 974 PH. 918-268-6861
CATOOSA, OK 74015

1st Bank of Catoosa
P.O. DRAWER L • 918-268-2271
CATOOSA, OKLAHOMA, 74015

5952

86-138
1031

November 6 1990

PAY _____ DOLLARS $100.00

TO THE ORDER OF
Tulsa City - County Health Dpet.
Air Quality Control Programs
4616 E. 15th Street
Tulsa, OK 74112

⑈005952⑈ ⑆103101385⑆ ⑈12 766 2⑈

SHERWOOD CONSTRUCTION COMPANY OF OKLAHOMA, NC.

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED.

DELUXE - FORM WVC-3 V-4

INVOICE DATE	INVOICE NO.	DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS DISCOUNT	DEDUCTIONS FREIGHT	NET AMOUNT
		Permit				
				460 173	002 B10000	

V-4

(90-20)

FAC 6046
2005-021-C

GREENHILL MATERIALS CO., L.C.

CHECK NUMBER 011253

INVOICE DATE	INVOICE NUMBER	INVOICE AMOUNT	DISCOUNT AMOUNT	NET REMITTANCE	JOB NUMBER
	$400.00 100 007 A50000GM				

REMITTANCE STATEMENT

CHECK DATE ➧ | TOTAL REMITTANCE ➧

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER AND HAS MICRO PRINTING IN THE SIGNATURE LINE

GREENHILL MATERIALS CO., L.C.
P.O. Box 10
Catoosa, OK 74015

Bank of America
Catoosa, OK 74015
39-1 / 1030 OK

CHECK NUMBER 011253

CONTROL NUMBER

AMOUNT
$400.00

DATE October 3, 2005

Four Hundred Dollars----------

PAY
TO THE
ORDER OF Dept of Environmental Quality
Air Quality Division

AUTHORIZED SIGNATURE

⑈011253⑈ ⑆103000017⑆ 00286572001 5⑈

2005-021-C

Greenhill Materials Co. LC

(918) 266-6861
Fax (918) 266-6482
Post Office Box 10
Catoosa, OK 74015-0010

RECEIVED
OCT 03 2005
By See 012

September 30, 2005

Mr. Herb Neuman
Air Quality Division, ODEQ
DEQ Regional Office
3105 E. Skelly Drive, Suite 200
Tulsa, OK 74105

RE: Air Quality Permit at Proposed Limestone Mine in Tulsa County

Dear Mr. Neuman:

Greenhill Materials Co. LC located at 4716 N 193rd East Ave., Catoosa, OK 74015 is applying for a permit to construct a limestone Rock Crushing Facility. The site is located in the W/2, SE/4 Section 8, Township 20 North, Range 14 East, Tulsa County, Oklahoma.

Please find enclosed our application We have also enclosed a check for ~~$1,500.00~~ 400 GP for this application.

Sincerely,

Daryl Worley

Daryl Worley, P.E.
Greenhill Materials Co. LC

MINOR SOURCE PERMIT APPLICATION
for a
ROCK CRUSHING FACILITY
or a
SAND & GRAVEL OPERATION

FORMS & INSTRUCTIONS

AIR QUALITY DIVISION

STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

707 N. ROBINSON AVE., SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OK 73101-1677

PHONE: (405) 702-4100
FAX: (405) 702-4101

REVISED AUGUST 28, 1997

MINOR SOURCE APPLICATION INSTRUCTIONS
ROCK CRUSHING FACILITIES
SAND & GRAVEL OPERATIONS

ASSISTANCE AVAILABLE
DEQ Customer Assistance: (800) 869-1400
Air Quality Division: (405) 702-4100

INTRODUCTION

This package contains the State of Oklahoma Air Quality Permit Application for a Minor Source. Please read all the directions carefully before you fill it out. Answer all questions by checking the appropriate box or filling in a response. Original signature from a responsible official is required on Form 884. Please note that delays in processing your application may occur if an incomplete application is submitted. It is the applicant's responsibility to submit a complete application well in advance of anticipated commencement of construction, start up dates, or the effective date of operating permit program requirements to allow sufficient time for proper application review and permit issuance.

BACKGROUND

Oklahoma operates a dual air quality permit system under Oklahoma Administrative Code (OAC) 252:100. A *construction permit* is to be obtained prior to the commencement of construction, installation or modification of any source which will increase the amount of air contaminant emissions by more than the de minimis levels given in OAC 252:100-7-2. After construction is completed, application for an *operating permit* must be submitted within 60 days after start up. If you are uncertain whether a permit is required, a request for an applicability determination may be submitted to DEQ and a written determination will be made based on the data submitted. An applicability determination can also be performed to determine whether a facility is a major or minor source.

DEFINITIONS

Criteria Pollutant: Oxides of Nitrogen (NOx), Sulfur Dioxide (SO_2), Lead (Pb), Ozone (O_3, i.e., regulated as non-methane hydrocarbon or NMHC as a precursor to O_3), Particulate Matter less than 10 microns (PM_{10}), Carbon Monoxide (CO).

Minor Source: A source that has the potential to emit less than 100 tons/year of a criteria pollutant, less than 10 tons/year of any single hazardous air pollutant, and less than 25 tons/year total hazardous air pollutants in the aggregate. These sources are classified as Tier 1 sources and follow the simplest type of application process.

Synthetic Minor Source: A source which has the potential under maximum operating conditions to emit at the Major Source level but which has a permit which restricts emissions to the minor source level. Such restrictions may include any of the following: hours of operation, emission control devices, and throughput. Applications for minor source permits are classified as either Tier 1 or Tier II, depending on several factors.

Major Source: A source that has the potential to emit more than 100 tons/year for criteria pollutants, 25 tons/year of hazardous air pollutants, or 10 tons/year of any single hazardous air pollutant. Additionally, a Major Source will not have permit requirements which restrict all actual criteria pollutant and hazardous air pollutant emissions to less than these levels. These sources are complex in their potential impact and are subject to the Tier II or Tier III application process.

TIER DETERMINATION

DEQ's "Uniform Permitting" system, under OAC 252:002, categorizes applications as Tier I, II, or III, depending on their complexity and the amount of public interest. The main effect of a Tier classification is the amount of public review given the application. For Air Quality permits, Tier I basically includes minor sources and most synthetic minor sources. Tier II covers major sources, and Tier III covers only very large sources such as those requiring PSD review. **This packet is designed (only) to meet the application requirements for most Rock Crushing Facilities and Sand & Gravel Operations which are minor sources or synthetic minor sources and qualify as Tier I applications. Other facilities, including those with emission units not covered in this application packet and those that need emissions modeling assistance, should contact Air Quality for information or additional forms and/or worksheets.**

PERMIT FEES

Applicants must attach a check or money order (no cash will be accepted) payable to the DEQ Air Quality Division in accordance with the following schedule. Please reference the facility name (or existing permit or application number) on the check.

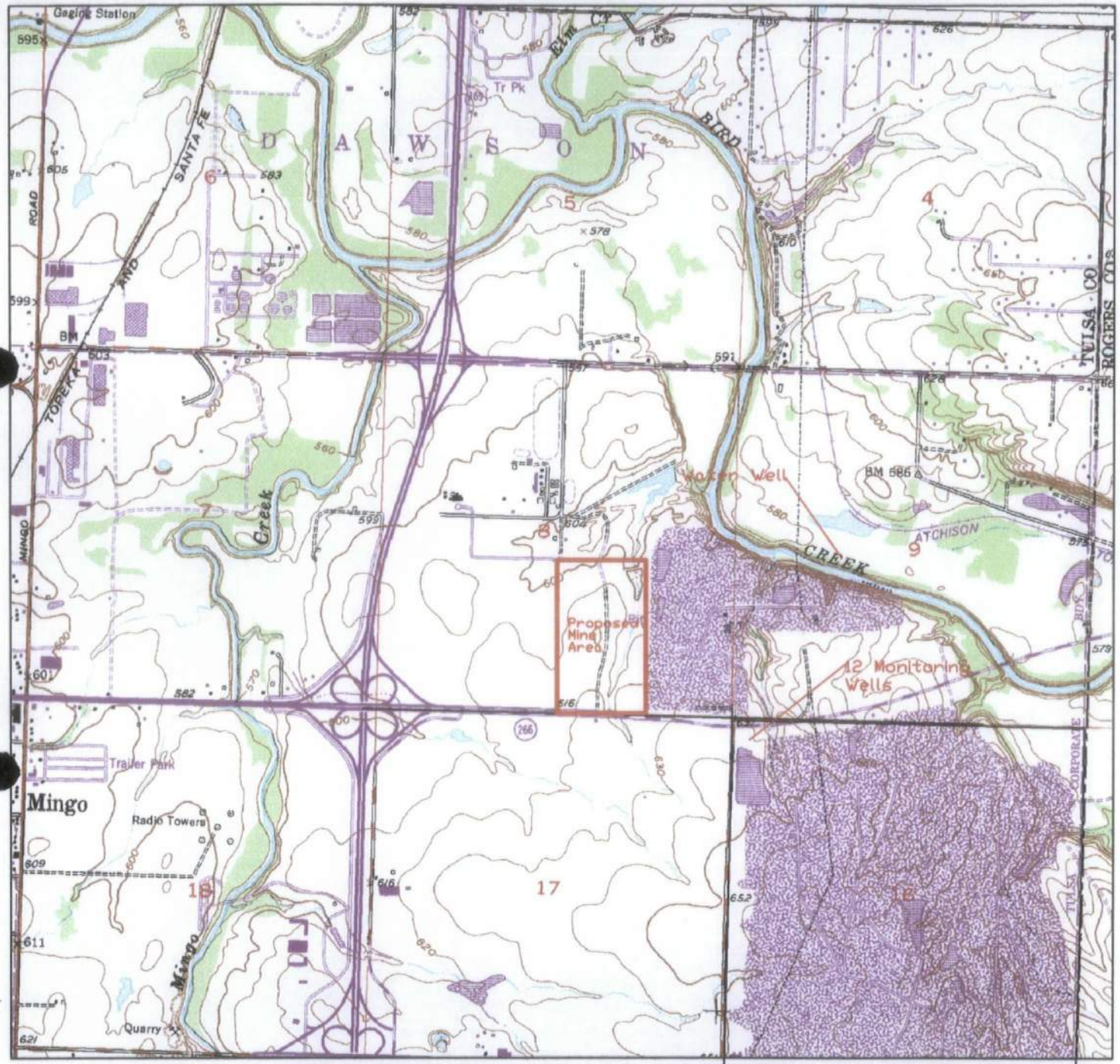
Emissions	Construction Fee	Operating Fee	Relocation Fee
0 to 39.99 TPY	$1000	$500	$100
40 to 99.99 TPY	$1500	$500	$100
Modifications: (no emissions increase)	$500	$200	—
Uncertain	$250 Applicability Determination Fee (applied toward permit fee if required)		

APPLICATION MUST INCLUDE:

1. DEQ Form # 100-884 (General Facility Information Form)
2. DEQ Form # 100-110 (Emission Units information for each unit on site)
3. DEQ Form # 100-810 (Landowner Affidavit)

SUBMIT 3 COPIES OF COMPLETED APPLICATON TO:

DEPARTMENT OF ENVIRONMENTAL QUALITY
FINANCIAL & HUMAN RESOURCES MANAGEMENT
P.O. BOX 2036



N

Township 20 North, Range 13 East
Tulsa County, Oklahoma

DLW			Greenhill Materials West Quarry	Location Map	Greenhill Materials Co., LC Catoosa, Oklahoma (918) 266-8801

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

1	COMPANY INFORMATION	Name	Greenhil Materials Co., LC				
Mailing Address	PO Box 10						
City	Catoosa			State	OK	Zip	74015

2	APPLICATION TYPE (check one)								
	Applicability Determination	X	Construction		Operation		Modification		Relocation
Est. Date of Construction/Modification Start:			March 2006		Completion:		June 2006		
Operational Start-up Date			June 2006						

3	CONFIDENTIAL INFORMATION INCLUDED		YES	X	NO

4	TIER CLASSIFICATION	X	Tier I		Tier II		Tier III		N/A AD only
FACILITY TYPE		X	Minor				Major		

5	FEES SUBMITTED	$1500.00	CHECK #		DATE	

6	TECHNICAL CONTACT	Name	Daryl Worley				
Phone	918-266-6861			Fax	918-266-6482		
Company Name	Greenhill Materials						
Street Address	4716 N 193rd East Ave						
City	Catoosa			State	OK	Zip	74015

7	FACILITY INFORMATION	Name	Greenhill Materials West Quarry				
Description	Limestone Aggregate Quarry and Crushing Operation						
SIC Code(s)	1422						
Contact Person	John Curtis		Title	General Manage		Phone	918-266-6861
Legal Description	Section	W/2, SE/4 Sec 8	Township	20N		Range	13E
Physical Address or Driving Directions	Approx ½ mile east of US Hwy 169 on 46th Street Nort (Hwy 266) on north side of road						
City or Nearest Town	Owasso		Zip	74055		County	Tulsa

8	Describe Any Residence, Park, School, etc. within ¼ mile	House and Barn complex operated by the owner of the land the quarry will be situated on.

9	LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
Facility is new.	

10	APPLICATION CERTIFICATION			
This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.				
Responsible Official (signature)				
Responsible Official (typed)	John Curtis		Date	30 Sept 06

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applicants must provide notice to the landowner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:4-7-13 (b).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)
	My application does not involve any land.
	My application involves only land owned by me (or applicant business).
X	I have a current lease given to accomplish the permitted purpose.
	I have a current easement given to accomplish the permitted purpose.

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)	X	Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
X	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		

LANDOWNER AFFIDAVIT CERTIFICATION					
I, as the applicant or an authorized representative of the applicant, hereby certify that I own the real property, have a current lease or easement which is given to accomplish the permitted purpose (per Option A above), or have provided legal notice to the landowner(s) (per Option B above) about the permit application for the facility described below.					
Company Name	Greenhill Materials, LC		Facility Name	Greenhill West Quarry	
Facility Address or Legal Description.	W/2, SE/4 Section 8, Twp 20 North, Rge 14 East, Tulsa County, OK				
Responsible Official (signature)	John Curtis			Date Signed	30 Sept 05
Responsible Official (typed)	John Curtis		Title	General Manager	

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

Greenhill Materials Co. LC

(918) 266-6861
Fax (918) 266-6482
Post Office Box 10
Catoosa, OK 74015-0010

September 14, 2005

Mr. R.H Harbaugh, Jr.
Manager
Greenhill Properties, LLC
1437 South Boulder
Tulsa, OK 74119

RE: Section 8 – Nearby Structures

Dear Mr. Harbaugh:
:

Greenhill Materials Co. LC located at 4716 N 193rd East Ave., Catoosa, OK 74015 is in the process of applying for an Oklahoma Department of Mines Permit. The permit is required to operate the limestone quarry to be operated on property owned by your client. The site is located in the W/2, SE/4 Section 8, Township 20 North, Range 14 East, Tulsa County, Oklahoma.

Your signature below will indicate that the owner is aware all structures located within 1000' of the permit area may be affected by the mining, and are in concurrence with the application.

Sincerely,

John Curtis
Greenhill Materials Co. LC

I, R.H. Harbaugh, Jr., am the manager of the above described property.

R. H. Harbaugh, Jr. 9/20/05 Date

Responsible Official Title	General Manager	Phone	918-266-6861

EMISSION UNITS - ROCK CRUSHING & SAND FACILITIES

MINOR SOURCE EQUIPMENT DESCRIPTION

In the table below, please list all emission units, (e.g., hoppers, crushers, grinders, screens, stockpiles, organic liquid storage tanks, and other miscellaneous equipment) located at the facility. For each unit, give an unique identifier (e.g. facility numbering system or emissions inventory ID#), number of operation hours per year, the equipment installation date (actual or projected), and the date the equipment was manufactured or modified. In the last column, indicate whether the unit is a subject of the requested permit action (Construction or Operating Permit, or Modification of an existing permit).

EMISSION UNITS (Equipment)		Operating Hours	Manufacture or Modify	Installation Date	Unit Subject of this Permit Action?	
ID #	Description	Per Year	Date		Yes	No
CR-1	Impact Crusher	3000	2001	Mar 2006	X	
S-1	6X16 Screen	3000	2003	Mar 2006	X	
CR-2	Secondary Impact Crusher	3000	2001	Mar 2006	X	
S-2	8X20 Screen	3000	2001	Mar 2006	X	
SS-1	Sand Screw	3000	2005	Mar 2006	X	
PM-1	Pugmill	2500	2005	Mar 2006	X	
C-n	Conveyors	3000	Uknown	Mar 2006	X	

Please provide the following information for each piece of equipment which is subject of the requested permit action. Data submitted for construction permits should be a best estimate. The values may be modified following construction and/or subsequent testing. This information is necessary to determine the emissions. Indicate crusher type according to product size, as used in AP-42, (1/95), Section 11.19.2: primary (3 to 12 inches), secondary (1 to 4 inches), or tertiary (3/16th to 1 inch). Likewise, indicate for each screen whether it serves as a fines screen or "other." Provide the requested information for each transfer point, including truck unloading, if applicable.

EMISSION POINTS – CRUSHERS/GRINDERS		Process Rate	Controls		Emission Factor (lb/ton)	
ID#	Crusher Type	(TPH)	Type	Efficiency	Controlled	Uncontrolled
CR-1	Primary Impact	600	WS	77.7%	0.00243	0.00054
CR-2	Secondary Impact	450	WS	77.7%	0.00243	0.00054
SCREENS		Process Rate	Controls		Emission Factor (lb/ton)	
ID#	Screen Type	(TPH)	Type	Efficiency	Controlled	Uncontrolled
S-1	Scalping Screen	600	WS	91.6%	0.00073	0.00865
S-2	Fines Screen	450	WS	100%	0	0.00865

OTHER EQUIPMENT		Process Rate	Controls		Emission Factor (lb/ton)	
ID#	Equipment Type	(TPH)	Type	Efficiency	Controlled	Uncontrolled
SS-1	Sand Screw	100	WS	100	0.0069	0.0029
PM-1	Pugmill	550	WS	100	0.00609	0.0029

STOCKPILES (Total Estimated Fugitives from Storage Piles)		Stockpile Area	Controls		Emission Factor (lb/acre/day)	
ID#	Stored Material	(Acres)	Type	Efficiency	Controlled	Uncontrolled
	See attached Calculations					

MATERIAL TRANSFER POINTS		Process Rate	Controls		Emission Factor (lb/ton)	
From (ID#)	To (ID#)	(TPH)	Type	Efficiency	Controlled	Uncontrolled
See Attached Calculations						

EMISSIONS DATA SOURCE	X	AP-42 (Jan. '95)		Other (Specify):	

CONTROL OF FUGITIVE DUST FROM VEHICLE TRAVEL						
Miles of Paved Facility Roads	0		Miles of Unpaved Facility Roads		1	
Road Dust Suppression Practices	X	Water Truck		Road Oiling	OCC Permit #:	
		Other (Specify):				

Please provide the following information if organic liquid storage tanks (e.g., fuel, solvents) with capacity of 400 gallons or more are operated at the facility. Data submitted for construction permits should be a best estimate. The values may be modified following construction and/or subsequent testing. Applicants must fill out a complete table for each such tank which has a capacity of 400 gallons or more.

STORAGE TANKS	Tank ID #	No Tanks on site	Construction / Modification Date	
Type of Liquid Stored:		Gasoline	Diesel	Other (Specify):
Tank Capacity (gallons)			Vapor Pressure (psia)	
Tank Height (ft)			Tank Diameter (ft)	
Maximum Throughput (gallons/year)			Tank Color	
Controls:		Submerged Fill Pipe	Vapor Recovery System	Other (Specify):

Green Hill Materials Fugitive Dust Emissions Ps 1 of 2
DLW 9-20-2005

Production

3000 Hrs/yr $\frac{600 \text{ Tons}}{\text{hr}}$ = 1.8×10^6 Tons/yr

	Plant Roads	Haul Roads
k	0.35	0.35
S (90 S.H)	10	9.6
S (MPH)	10	20
W (Ton)	31.75	79.25
ω (# wheels)	14	6
p (days o 0.01 Precip)	95	95
Avg Annual Prod Tons	1.8×10^6	1.8×10^6

VMT Traveled

$\frac{1.8 \times 10^6 \text{ Tons}}{20.5 \frac{\text{Tons}}{\text{ld}}}$ = 87800 lds

87800 lds $\frac{.5 \text{ mi}}{\text{lo}}$ = 43900 mile

$\frac{1.8 \times 10^6 \text{ Tons}}{65.5 \frac{\text{Tons}}{\text{ld}}}$ = 27480 lds

27480 lds $\frac{1 \text{ mi}}{\text{ld}}$ = 27480 mi

Plant

PM 10

$E = k\left(\frac{s}{12}\right)^a \left(\frac{w}{3}\right)^b$

$E = .35\left(\frac{10}{12}\right)^{.9}\left(\frac{31.75}{3}\right)^{0.45}$

$E = 0.86 \frac{\text{lbs}}{\text{VMT}}$

PM

$E = k\left(\frac{s}{12}\right)^a \left(\frac{w}{3}\right)^b$

$E = .35\left(\frac{10}{12}\right)^{.7}\left(\frac{31.75}{3}\right)^{.45}$

$E = .89 \frac{\text{lbs}}{\text{VMT}}$

PM10 Haul Roads

$E = k\left(\frac{s}{12}\right)^a \left(\frac{w}{3}\right)^b$

$E = .35\left(\frac{9.6}{12}\right)^{.9}\left(\frac{79.25}{3}\right)^{.45}$

$E = 1.25 \frac{\text{lbs}}{\text{VMT}}$

PM

$E = k\left(\frac{s}{12}\right)^a \left(\frac{w}{3}\right)^b$

$E = .35\left(\frac{9.6}{12}\right)^{.7}\left(\frac{79.25}{3}\right)^{.45}$

$E = 1.31 \frac{\text{lbs}}{\text{VMT}}$

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

Plant Roads

$PM_{10} = 43900\ mi \ \frac{0.86\ lbs}{VMT}$

$PM_{10} = 18.9\ Ton$

$PM = 43900\ mi \ .89\ \frac{lbs}{VMT}$

$PM = 19.5\ Ton$

Haul Roads

$PM_{10} = 1.25\ \frac{lbs}{VMT}\ (27480\ mi)$

$PM_{10} = 17.2\ Tons$

$PM = 1.31\ \frac{lbs}{VMT}\ 27480\ mi)$

$PM = 18.0\ Ton$

Storage Pile

PM_{10}

$E = 0.0032\ k\ \frac{\left(\frac{u}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$

u = Wind speed = 10 MPH

M = Moisture Content % = 2%

$E = (0.0032)(0.35)\ \frac{\left(\frac{10}{5}\right)^{1.3}}{\left(\frac{2}{2}\right)^{1.4}}$

$E = 2.75 \times 10^{-3}\ \frac{lb}{Ton}$

$E_{PM} = 2.75\ \frac{lb}{Ton}\ 1.8 \times 10^{6}\ \frac{Ton}{yr} = 2.48\ Ton$

PM

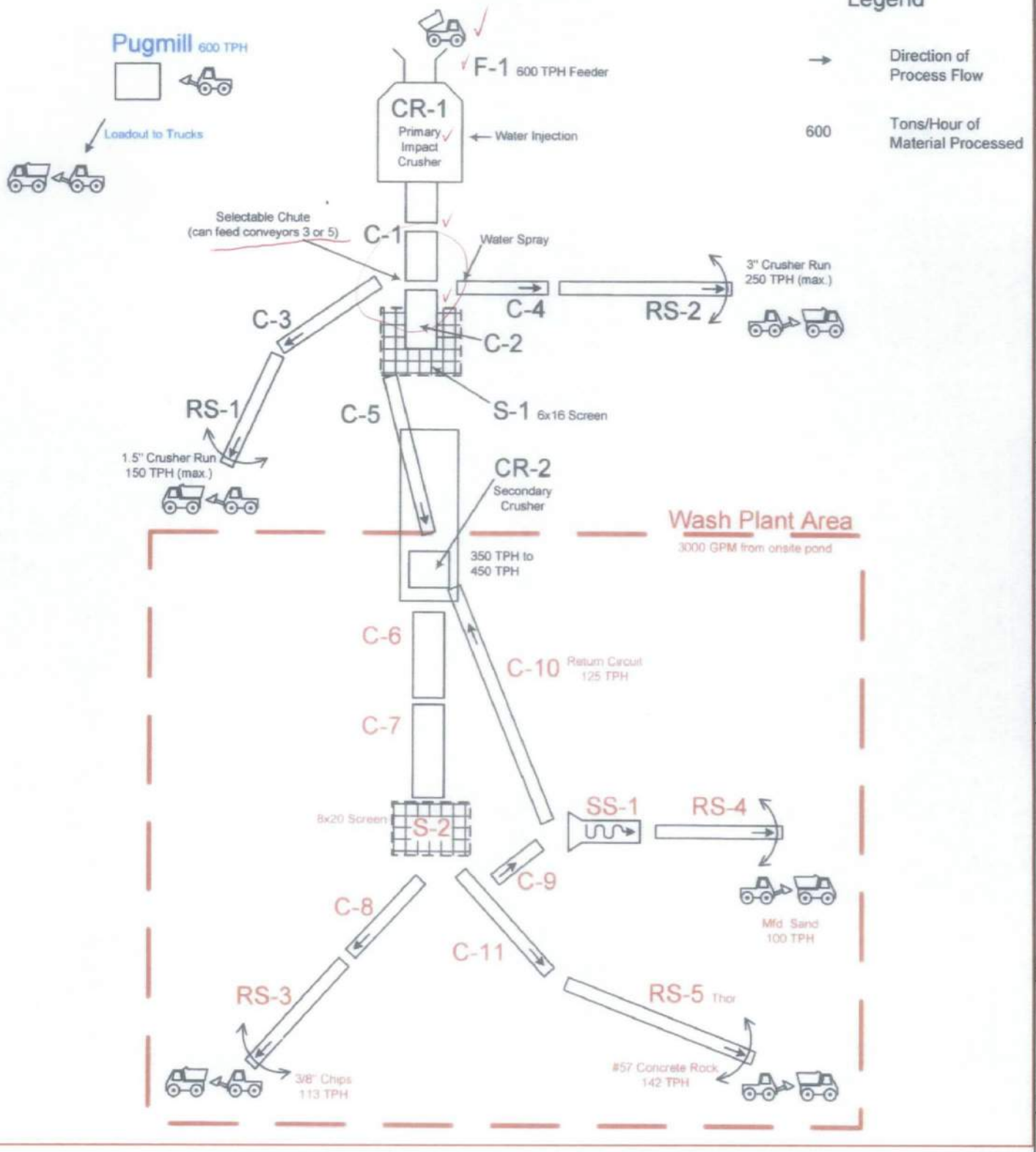
$E = 0.0032\ (.74)\ \frac{\left(\frac{10}{5}\right)^{1.3}}{\left(\frac{2}{2}\right)^{1.4}}$

$E = 5.83 \times 10^{-3}\ \frac{lb}{Ton}$

$E_{PM} = 5.83 \times 10^{-3}\ \frac{lb}{Ton}\ 1.8 \times 10^{6}\ \frac{Ton}{YR}$

$E = 5.2\ \frac{Ton}{YR}$

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD



Greenhill Materials Co., LC
Catoosa, Oklahoma

Line Drawing

Greenhill Materials West Quarry

DLW

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Company Mailing Address	STREET: 1640 S 101ST E AVE		
	CITY: TULSA	STATE: OK	ZIP: 74128
Facility Physical Address	STREET: 2 MI W ON HWY 266		
	CITY: CATOOSA	STATE: OK	ZIP: 74015

Status:	Active
NAICS:	212312
SIC:	1422
TRI:	

Issued Permit:	Date Issued;
2005-012-O	2005-07-12

Responsible Official

Name:	JOHN CURTIS
Phone:	(918) 266-6861
Fax:	(918) 266-6482
Email:	johnc@sherwoodoklahoma.com

Notes from DEQ to Facility

Entered amended 2013 inventory to correct PM2.5 and PM10 emissions.

Notes from Facility to DEQ

Facility Contact

Name:	ROB SIMMS
Phone:	(918) 266-6861
Fax:	(918) 266-6482
Email:	robs@sherwoodoklahoma.com

Facility Location: Legal Description

County:	Rogers		
Sec Loc:		Section:	10
Town:	20N	Range:	14E

Geographic Coordinates

Latitude:	36.22576
Longitude:	-95.8074

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
1	22519	Feeder F-1 to Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23001 — **Name: Feeder F-1 to Crusher CR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121371 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1439211**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units** / Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.1990** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units** / Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
2	22520	Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23002 — **Name: Crusher CR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121372 **SCC:** 30502001 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1439211**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0024 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.36** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 75 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0.54 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0001 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0720** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 75 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
3	22521	Crusher CR-1 to Conveyor C-1

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23003 — **Name: Crusher CR-1 to Conveyor C-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	8

Process Data

Process ID: 121373 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1439211**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.1990** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
4	22522	Conveyor C-1 to Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23004 — **Name: Conveyor C-1 to Conveyor C-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121374 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1439211**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? — Trace — (<0.001 tons)

Total Actual Emissions: **0.1990** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? — Trace — (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
5	22523	Conveyor C-2 to Conveyor C-3

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23005 — **Name: Conveyor C-2 to Conveyor C-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121375 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
22	150	**35980**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
6	22524	Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 23006 — **Name: Screen S-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121376 **SCC:** 30502014 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Shaker Screens

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1439211**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.1990** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
7	22525	Screen S-3 to Conveyor C-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23007 **Name: Screen S-3 to Conveyor C-8** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121377 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
42	285	**68363**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: Permit Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0.1960 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
8	22526	Conveyor C-6 to Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23008 — **Name: Conveyor C-6 to Crusher CR-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121378 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1400	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **0.0470** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0.1960	Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
9	22527	Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23009 — **Name: Crusher CR-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121379 **SCC:** 30502002 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Secondary Crushing/Screening

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Tons		
	Maximum Hourly	Typical Daily	Actual Annual
	165	1140	**273450**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0024	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0680** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 75 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.1620 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0001	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0140** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 75 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
10	22528	Storage Piles

Notes	Unit Type	Status	Latitude	Longitude
	Open Storage Pile	Operating	36.228190	-95.805780

Emission Release Point ID: 23010 — **Name: Storage Piles** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121380 **SCC:** 30502007 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Open Storage

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**148204**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **8760**

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.012 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **8.15** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.001 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.7410** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
11	22529	Haul Roads		Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23011 — **Name: Haul Roads** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	2

Process Data

Process ID: 145141 **SCC:** 30502011 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
18	135	**33944**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 5.35 Pounds — **Numerator Units** — **Denominator Units:** Miles

Reference: — Factor Includes Control Efficiency? — Trace — (<0.001 tons)

Total Actual Emissions: **27.19** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 45.90 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.009 Pounds — **Numerator Units** — **Denominator Units:** Miles

Reference: — Factor Includes Control Efficiency? — Trace — (<0.001 tons)

Total Actual Emissions: **0.0460** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
12	22530	Plant Roads

Notes	Unit Type	Status	Latitude	Longitude
Please delete SCC 30502011 from this Emission Point, as it is redundant. All emissions from this EP are reported under SCC 30502090.	Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23012 — **Name: Plant Roads** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 145142 **SCC:** 30502011 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
0	0	**0**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **0**

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	1.34	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 26.40	**Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.007	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Miles	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Process ID: 121382 **SCC:** 30502090 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305020 for diff. units), Haul Roads - General

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Miles		
	Maximum Hourly	Typical Daily	Actual Annual
	17	136	**31786**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	1.34	Pounds	Numerator Units	(<0.001 tons)	**19.09** Tons
Reference	Factor Includes Control Efficiency?	Miles	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)		Excess Emissions	Tons
100	Dust Suppression	70		0	
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.007	Pounds	Numerator Units	(<0.001 tons)	**0.0460** Tons
Reference	Factor Includes Control Efficiency?	Miles	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)		Excess Emissions	Tons
0	* Uncontrolled	0		0	
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
13	35579	Truck Unloading to Feeder F-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35416 — **Name: Truck Unloading to Feeder F-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 142420 **SCC:** 30502031 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	885	6000	**1439211**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000016	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0120** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	**Tons**
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0.0140	**Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
14	35580	Front-end Loader to Rock Truck

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35417 — **Name: Front-end Loader to Rock Truck** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 142421 **SCC:** 30502033 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Loading: Front End Loader

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	95	700	**178982**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: 0.26 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.1390 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
15	35581	Rock Truck to Rail Car

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35418 — **Name: Rock Truck to Rail Car** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142422 **SCC:** 30502031 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	95	700	**178982**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: 0.26 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.1390 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
16	35583	Crusher CR-2 to Conveyor C-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35419 — **Name: Crusher CR-2 to Conveyor C-7** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142423 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1420	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**) — Factor Includes Control Efficiency? —

Reference:

Trace — (<0.001 tons)

Total Actual Emissions: **0.0470** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0.1390 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**) — Factor Includes Control Efficiency? —

Reference:

Trace — (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
17	35584	Conveyor C-2 to Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35420 **Name: Conveyor C-2 to Screen S-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142424 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Tons		
	Maximum Hourly	Typical Daily	Actual Annual
	420	2950	**683625**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: Permit Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐ Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0950** **Tons**

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** **Amount allowed:** 0.1390 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐ Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0040** **Tons**

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
18	35590	Screen S-2 to Conveyor C-5

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35425 **Name: Screen S-2 to Conveyor C-5** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142429 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1400	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: Permit Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? Trace (<0.001 tons)

Total Actual Emissions: **0.0470** **Tons**

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0 **Amount allowed:** 0.0490 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? Trace (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0 **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
21	38267	Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 38206 — **Name: Screen S-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145179 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	420	2850	**683625**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference:

Factor Includes Control Efficiency? x

Trace (<0.001 tons)

Total Actual Emissions: **0.0950** **Tons**

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.0490 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.00005 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.0170** **Tons**

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
22	38270	Screen S-3 to Conveyor C-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38209 — **Name: Screen S-3 to Conveyor C-10** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145182 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
168	1140	**273450**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0380** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
23	38272	Conveyor C-5 to Conveyor C-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38211 — **Name: Conveyor C-5 to Conveyor C-6** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145184 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1420	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0470** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
24	38274	Fuel Storage Tank

Notes	Unit Type	Status	Latitude	Longitude
	Storage Tank	Operating	36.228190	-95.805780

Emission Release Point ID: 38213 — **Name: Diesel Tank** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 145186 **SCC:** 42500101 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Breathing Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Gallons	150	1125	**269603**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: TANKS — **EmissionFactor:** 0 — **Reference:**

Factor Includes Control Efficiency?

*N/A- Formula, Software, or CEMS — **Numerator Units**

*N/A- Formula, Software, or CEMS — **Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0010** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.01 **Tons/Year**

Process ID: 145187 **SCC:** 42500102 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Working Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Gallons		
	Maximum Hourly	**Typical Daily**	**Actual Annual**
	150	1125	**269603**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1915**

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* **CAS Number:**

Calculation Method: TANKS **EmissionFactor:** 0 *N/A - Formula, Software, or CEMS **Numerator Units** *N/A - Formula, Software, or CEMS **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0010** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.01 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
25	45812	Conveyor C-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45698 — **Name: Conveyor C-9 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154726 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	42	275	**68363**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
28	45822	Crusher CR-3 to Conveyor C-12

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45707 — **Name: Crusher CR-3 to Conveyor C-12** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154739 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
168	1150	**273450**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0380** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
29	45823	Conveyor C-11 to Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45708 — **Name: Conveyor C-11 to Crusher CR-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154740 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
168	1150	**273450**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0380** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
32	45827	Conveyor C-7 to Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45711 — **Name: Conveyor C-7 to Screen S-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154743 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1400	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0470** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
33	48741	Screen S-1 to Conveyor C-1a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48668 — **Name: Screen S-1 to Conveyor C-1a** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
130680	10

Process Data

Process ID: 158411 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
443	3000	**719606**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
34	48742	Conveyor C-1a to Conveyor C-1b

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48669 — **Name: Conveyor C-1a to Conveyor C-1b** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158413 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
443	3000	**719606**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
35	48743	Conveyor C-1b to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48670 — **Name: Conveyor C-1b to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 158414 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
443	3000	**719606**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds — **Numerator Units** — **Denominator Units:** Tons

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds — **Numerator Units** — **Denominator Units:** Tons

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
36	48744	Screen S-1 to Conveyor C-1c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48671 — **Name: Screen S-1 to Conveyor C-1c** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158415 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
443	3000	**719606**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds / Tons — **Numerator Units** / **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds / Tons — **Numerator Units** / **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
37	48745	Conveyor C-1c to Conveyor C-1d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48672 — **Name: Conveyor C-1c to Conveyor C-1d** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158416 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
443	3000	**719606**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
38	48746	Conveyor C-1d to Conveyor C-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48673 — **Name: Conveyor C-1d to Conveyor C-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158417 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
443	3000	**719606**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds — **Numerator Units** — **Denominator Units:** Tons

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds — **Numerator Units** — **Denominator Units:** Tons

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
39	48747	Conveyor C-3 to Conveyor C-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48674 — **Name: Conveyor C-3 to Conveyor C-4** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158418 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
22	150	**35980**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.0060 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
40	48748	Conveyor C-4 to Conveyor C-4a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48675 — **Name: Conveyor C-4 to Conveyor C-4a** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158419 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
22	150	**35980**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.0050 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
41	48749	Conveyor C-4a to C-11

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48676 — **Name: C-4a to C-11** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158420 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
22	150	**35980**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0050** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.0060 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
42	48751	Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 48680 — **Name: Crusher CR-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13068000	10

Process Data

Process ID: 158440 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1400	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0024 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0850** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0001 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0170** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
43	48752	Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 48681 — **Name: Screen S-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158441 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	210	1400	**341813**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0410** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.00005 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐ — Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
44	48753	Conveyor C-8 to Conveyor C-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48682 — **Name: Conveyor C-8 to Conveyor C-9** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158442 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
42	285	**68363**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1915**

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0090** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace x — (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
45	48754	Frontend loader to feed bins

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48683 — **Name: Frontend loader to feed bins** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158443 **SCC:** 30502017 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	260	1900	**455635**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.0029	Pounds	**Numerator Units**	(<0.001 tons)	**0.33 Tons**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)		Excess Emissions	
100	Dust Suppression	90	0	Tons	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0		**Amount allowed** 0	**Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.000013	Pounds	**Numerator Units**	(<0.001 tons)	**0.0030 Tons**
Reference AP-42	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)		Excess Emissions	
100	Dust Suppression	90	0	Tons	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0		**Amount allowed** 0	**Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
46	48755	Feed bins to gathering belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48684 — **Name: Feed bins to gathering belt** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158444 **SCC:** 30502017 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	260	1900	**455635**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.0029	Pounds	Numerator Units	(<0.001 tons)	**0.33** Tons
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.000013	Pounds	Numerator Units	(<0.001 tons)	**0.0030** Tons
Reference: AP-42	Factor Includes Control Efficiency?	Tons	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
47	48756	Gathering belt to feed belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48685 — **Name: Gathering belt to feed belt** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158445 **SCC:** 30502017 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	260	1900	**455635**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.33 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	90	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference: AP-42	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.0030 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	90	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
48	48757	Railcar to Subsurface Bin

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48686 — **Name: Railcar to Subsurface Bin** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158446 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	27	200	**29460**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0420** Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
49	48758	Subsurface bin to Conveyors C-a thru C-c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48688 **Name: Subsurface bin to Conveyors C-1 thru C-c** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 158447 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
27	200	**29460**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0420** Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
50	48759	Conveyors C-a thru C-c to Conveyor C-d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48689 — **Name: Conveyors C-a thru C-c to Conveyor C-d** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13006800	5

Process Data

Process ID: 158448 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	27	200	**29460**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0420** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.00013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: AP-42 — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
51	48760	Conveyor C-d to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48690 — **Name: Conveyor C-d to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158449 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	27	200	**29460**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1915

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Numerator Units:** Pounds — **Denominator Units:** Tons

Reference: AP-42

Trace — (<0.001 tons)

Total Actual Emissions: **0.0420** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Numerator Units:** Pounds — **Denominator Units:** Tons

Reference: AP-42

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
52	76304	Truck Unloading to Portable Crusher Plant Feeder

Notes	Unit Type	Status	Latitude	Longitude
Please delete chromium and chromium compounds from this EP.	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76302 — **Name: Truck Unloading to Feeder** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189501 **SCC:** 30502031 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	40	280	**42993**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: *Chromium and Chromium compounds* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000016	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	30	0	**Tons**
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
53	76307	Portable Plant Feeder (PPF-1) to Crusher PPCR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76303 — **Name: PPF-1 to PPCR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189502 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
40	280	**42993**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.0019	Pounds	**Numerator Units**	(<0.001 tons)	**0.0420 Tons**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	30	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	0.000013	Pounds	**Numerator Units**	(<0.001 tons)	**0.0020 Tons**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	30	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
54	76308	Primary Crusher PPCR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 76304 — **Name: Primary Crusher PPCR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189503 **SCC:** 30502001 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	40	280	**42993**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0024 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0420** Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 15

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0001 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
55	76309	Primary Crusher PPCR-1 to Conveyor PPC-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76305 — **Name: PPCR-1 to PPC-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189504 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
40	280	**42993**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0430** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
56	76310	Conveyor PPC-1 to Conveyor PPC-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76306 — **Name: PPC-1 to PPC-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189505 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
40	280	**42993**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0430** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
57	76311	Primary Screen PPSC-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 76307 — **Name: Primary Screen PPSC-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189506 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	40	280	**42993**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0430** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
58	76314	Screen PPSC-1 to Underbelly Belt PPC-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76309 — **Name: PPSC-1 to PPC3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189507 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
26	165	**25796**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: **0.0260** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
59	76316	Conveyor PPC-3 to Conveyor PPC-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76311 — **Name: PPC-3 to PPC-4** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189509 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	25	170	**25796**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0260** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
60	76317	Conveyor PPC-4 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76312 — **Name: Conveyor PPC-4 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189510 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	170	**25796**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0260** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
61	76318	Screen PPSC-1 to Conveyor PPC-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76313 — **Name: PPSC-1 to PPC-10** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189511 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
4	30	**4299**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1226

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0040** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
62	76319	Screen PPSC-1 to Conveyor PPC-5

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76314 — **Name: PPSC-1 to PPC-5** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189512 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	**2150**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
63	76320	Conveyor PPC-5 to Conveyor PPC-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76315 — **Name: PPC-5 to PPC-6** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189513 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	**2150**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
64	76321	Conveyor PPC-6 to Conveyor PPC-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76316 — **Name: PPC-6 to PPC-7** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189514 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
2	15	**2150**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
65	76322	Conveyor PPC-7 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76317 — **Name: PPC-7 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189515 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	2	15	**2150**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: **0.0020** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
66	76323	Conveyor PPC-10 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76318 — **Name: PPC-10 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189516 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
5	30	**4299**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **995**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0040** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
67	76324	Screen PPSC-1 to Conveyor PPC-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76319 — **Name: PPSC-1 to PPC-8** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189517 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	9	60	**10748**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.0110** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
68	76325	Conveyor PPC-8 to Conveyor PPC-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76320 — **Name: PPC-8 to PPC-9** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189518 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	9	60	**10748**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.11** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
69	76326	Conveyor PPC-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76321 — **Name: PPC-9 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189519 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	9	60	**10748**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0110** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 30

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
70	76327	800 HP Cat Portable Plant Diesel Generator Engine

Notes	Unit Type	Status	Latitude	Longitude
	Reciprocating IC Engine	Operating	36.228190	-95.805790

Emission Release Point ID: 76322 **Name: Diesel Generator Engine Exhaust Stack** **Type: Vertical** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	11	0.67	515	2350

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
0	0

Process Data

Process ID: 189520 **SCC:** 20200102 **Is Process Data Confidential?** N

Process Description: Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating

Process Material: Distillate Oil (Diesel)

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Gallons

Maximum Hourly	Typical Daily	Actual Annual
9	65	**8601**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	115	MMBTU/1000 GAL	0	0

Actual Hours/Year: **1226**

Typical Operating Periods (when process is operational)

Hours/Day 4 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Carbon Monoxide* **CAS Number:** 630080

Calculation Method	EmissionFactor		
Manuf. Test Data (w/ DEQ approval)	8.5	Grams	Numerator Units
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **9.18** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

Pollutant: * *Nitrogen Oxides - NOx* **CAS Number:**

Calculation Method	EmissionFactor		
Manuf. Test Data (w/ DEQ approval)	6.9	Grams	Numerator Units
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **7.45** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

Pollutant: * PM-10 (All Particulate Matter <10 microns) **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	0.4	Grams	Numerator Units	(<0.001 tons)	0.43 Tons
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions
0	* Uncontrolled	0	0 Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0 Tons/Year

Pollutant: * Sulfur Oxides - SOx **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	0	Grams	Numerator Units	(<0.001 tons)	0 Tons
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions
0	* Uncontrolled	0	0 Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0 Tons/Year

Pollutant: * Total VOC **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	1	Grams	Numerator Units	(<0.001 tons)	1.08 Tons
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions
0	* Uncontrolled	0	0 Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
71	93991	John Deere 150hp Diesel Pump Engine

Notes	Unit Type	Status	Latitude	Longitude
	Reciprocating IC Engine	Operating	36.225760	-95.8074

Emission Release Point ID: 93685 **Name: Engine exhaust stack** **Type: Vertical with rain cap** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	6	0.33	900	900

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
0	0

Process Data

Process ID: 210124 **SCC:** 20200102 **Is Process Data Confidential?** N

Process Description: Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Gallons

Maximum Hourly	Typical Daily	Actual Annual
2	12	**3039**

Combustion Processes

Fuel Heat Input Design Capacity: 0

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1932

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Carbon Monoxide* **CAS Number:** 630080

Calculation Method	EmissionFactor		
AP-42 Factors	3.033	Grams	**Numerator Units**
Reference Talbe 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 1.89 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * *Nitrogen Oxides - NOx* **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	14.07	Grams	**Numerator Units**
Reference Table 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 8.75 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * PM-10 (All Particulate Matter <10 microns) **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	1	Grams	Numerator Units	(<0.001 tons)	0.62 Tons
Reference: Table 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)						
0	Primary Control Device	* Uncontrolled	Primary Efficiency (%)	0	Excess Emissions 0	Tons
	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed 0	Tons/Year

Pollutant: * Total VOC **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	1.1	Grams	Numerator Units	(<0.001 tons)	0.71 Tons
Reference: Table 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)						
0	Primary Control Device	* Uncontrolled	Primary Efficiency (%)	0	Excess Emissions 0	Tons
	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed 0	Tons/Year

COMPANY NAME: SHERWOOD CONSTRCTN CO INC **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL **FACILITY ID: 3421**

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT
* Carbon Monoxide	630080	11.07
* Nitrogen Oxides - NOx		16.20
* Sulfur Oxides - SOx		0

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Total VOC		1.7920	

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* PM-10 (All Particulate Matter <10 microns)		60.1450	N
* PM-2.5 (All Particulate Matter <2.5 microns)		1.0610	N
Chromium and Chromium compounds		0	Y

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

"I certify:
(a) That I am the Responsible Official for SHERWOOD CONSTRCTN CO INC as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ **Date:** _____ **Title:** _____

DEQ Form #100-730	FINAL 2014 EMISSIONS INVENTORY	Final Submission Made: 2/3/2015 2:53 PM

See Page 4 for Instructions

RECE
JAN 14 2016
ECLS

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR052301

Section II. Facility Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Materials Company, Inc. Phone: 918-266-6861

Address: 14701 E. Highway 266

City: Owasso County: Rogers Zip Code: 74055

Latitude: 36.234 deg N Longitude: 95.802 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/11/16

Signature: Title: Materials Manager

1-27-16
SP

ADDENDUM H – ANNUAL COMPREHENSIVE SITE COMPLIANCE EVALUATION REPORT FOR CONCRETE AND ASPHALT BATCH PLANTS

See Page 4 for Instructions

DEQ FORM 606-006 Sept. 13, 2012

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).
See Instructions on Page 4 of the Form.

Section I.
OPDES Permit Authorization Number: OKG11MT87

Section II. Facility Operator Information
Name: Greenhill Concrete Products Phone: 918.266.6861
Address: 1640 S. 101st E. Ave.
City: Tulsa State: OK Zip Code: 74128

Section III. Facility Location
Name: ODOT - I-35, SH-9 Interchange Phone:
Address: 1500 28th Avenue SW
City: Norman County: Cleveland Zip Code: 73072
Latitude: 35° 11' 57.9" N Longitude: 97° 29' 05.77" W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report. This report is also to be retained as part of the Storm Water Pollution Prevention Plan (SWP3) for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any state or federal inspector visiting this facility. All records of actions taken in accordance with G.8 of this permit as part of the SW P3 will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: X 7/25/16
Signature: X Title: VP Materials

Annual Comprehensive Site Compliance Evaluation Report - Part B Page 1.

Reporting Period: 03/01/2015 to 12/31/2015.

✓ How many routine facility inspections did you perform during the reporting period? None

✓ How many corrective actions to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
12/31/2015	No quarterly inspections	N	

✓ What must you do to correct the deficiencies that remain uncorrected?

Will start conducting quarterly visual sampling and documentation

✓ Were all BMPs you indicated you would be using in your SWP3 including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes ____ No X

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ____ No ____ All BMPs were being implemented ____ See above

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ____ No X No deficiencies noted in any inspection ____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ____ No X All BMPs were effective ____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No X All BMPs were being effective ____

✓ Are there additional BMPs needed to address any conditions requiring corrective action?
Yes ____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No ____ Permit applied for ____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ____ No____ No spills or leaks occurred X

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ____ No____ No spills or leaks occurred X

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part G.7.A Quarterly Visual Monitoring)
Yes ____ No____ Number of Visual Monitoring 0

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ____ No X

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem. N/A - None documented
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ____ No X

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A			

✓ Are there any required revisions to the SWP3 resulting from the inspection?
Yes X No _

Separate SWP3 will be developed for this plant.

606-11-2	Calibration records for instruments and equipment maintained	24	☐
606-11-2	Chain of custody documents, date, time, place of sample, sampler, number and type of samples, preservatives used and signatures	25	☐
606-5-1	No visible oil sheen (violation of OWQS)	26	☐
606-5-1	No visible foam or solids (violation of OWQS)	27	☐

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

June 15, 2016

Matt Ritchie, Vice President, Materials
Greenhill Concrete Products, Inc.
1640 S. 101st E. Avenue
Tulsa, OK 74128

Re: Annual Comprehensive Site Compliance Evaluation Reports (ACSCERs) for Concrete Batch Plants

Dear Mr. Ritchie:

The Oklahoma Department of Environmental Quality (DEQ) is in receipt of several ACSCERs for batch facilities owned and operated by Greenhill Concrete Products, Inc. The plants and their respective permit authorization numbers are contained in the following table:

Owasso	OKG11T212	Broken Arrow	OK0045781		

The ACSCERs have been entered into a database and are deemed complete for the 2015 permit year. If you have any questions regarding this letter, please do not hesitate to call me at (405) 702-8112, or write to me at the letterhead address.

Sincerely,

Michelle Chao
District Representative
Water Quality Division

MTC/WTC/mkd

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Company Mailing Address	STREET: 1640 S 101ST E AVE		
	CITY: TULSA	STATE: OK	ZIP: 74128
Facility Physical Address	STREET: 2 MI W ON HWY 266		
	CITY: CATOOSA	STATE: OK	ZIP: 74015

Status: Active
NAICS: 212312
SIC: 1422
TRI:

Issued Permit:	Date Issued;
2005-012-O	2005-07-12

Responsible Official

Name: JOHN CURTIS
Phone: (918) 266-6861
Fax: (918) 266-6482
Email: johnc@sherwoodoklahoma.com

Facility Contact

Name: ROB SIMMS
Phone: (918) 266-6861
Fax: (918) 266-6482
Email: robs@sherwoodoklahoma.com

Notes from DEQ to Facility

Notes from Facility to DEQ

Facility Location: Legal Description

County: ROGERS
Sec Loc:
Section: 10
Town: 20N
Range: 14E

Geographic Coordinates

Latitude: 36.22576
Longitude: -95.8074

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
1	22519	Feeder F-1 to Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23001 — **Name: Feeder F-1 to Crusher CR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121371 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1613794**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.2240** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
2	22520	Crusher CR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23002 — **Name: Crusher CR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121372 **SCC:** 30502001 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	885	6000	**1613794**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0024	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **0.4030** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	75	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0.54	Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0001	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **0.10** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	75	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
3	22521	Crusher CR-1 to Conveyor C-1

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23003 — **Name: Crusher CR-1 to Conveyor C-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	8

Process Data

Process ID: 121373 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1613794**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.2240** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
4	22522	Conveyor C-1 to Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23004 — **Name: Conveyor C-1 to Conveyor C-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121374 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1613794**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.2240** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
5	22523	Conveyor C-2 to Conveyor C-3

Notes	Unit Type	Status	Latitude	Longitude
	Conveyor	Operating	36.228190	-95.805780

Emission Release Point ID: 23005 — **Name: Conveyor C-2 to Conveyor C-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121375 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
22	150	**40345**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **2089**

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.2610 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
6	22524	Screen S-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 23006 — **Name: Screen S-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121376 **SCC:** 30502014 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Shaker Screens

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
885	6000	**1613794**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.2240** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0.2610	Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
7	22525	Screen S-3 to Conveyor C-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23007 — **Name: Screen S-3 to Conveyor C-8** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 121377 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
42	285	**76655**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference:

Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.1960 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference:

Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
8	22526	Conveyor C-6 to Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 23008 — **Name: Conveyor C-6 to Crusher CR-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121378 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1400	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.1960 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
9	22527	Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805780

Emission Release Point ID: 23009 — **Name: Crusher CR-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 121379 **SCC:** 30502002 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Secondary Crushing/Screening

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	165	1140	**306621**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0024 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: 0.10 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 75 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.1620 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0001 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 75 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
10	22528	Storage Piles

Notes	Unit Type	Status	Latitude	Longitude
	Open Storage Pile	Operating	36.228190	-95.805780

Emission Release Point ID: 23010 — **Name: Storage Piles** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 121380 **SCC:** 30502007 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Open Storage

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	1000	7000	**1996544**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **8760**

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.012 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **10.98** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.001 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **1** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
11	22529	Haul Roads		Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23011 — **Name: Haul Roads** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	2

Process Data

Process ID: 145141 **SCC:** 30502011 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
25	160	**46074**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 5.35 Pounds — **Numerator Units** — **Denominator Units:** Miles

Reference: — Factor Includes Control Efficiency? — Trace — (<0.001 tons)

Total Actual Emissions: **36.91** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 45.90 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.009 Pounds — **Numerator Units** — **Denominator Units:** Miles

Reference: — Factor Includes Control Efficiency? — Trace — (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
12	22530	Plant Roads		Open Air Fugitive Source	Operating	36.228190	-95.805780

Emission Release Point ID: 23012 — **Name: Plant Roads** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 121382 **SCC:** 30502090 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305020 for diff. units), Haul Roads - General

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Miles

Maximum Hourly	Typical Daily	Actual Annual
25	160	**44963**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **2089**

Typical Operating Periods (when process is operational)

Hours/Day 10 **Days/Week** 6 **Weeks/Year** 50

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 1.34 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Miles — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **27** **Tons**

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.007 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Miles — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

Process ID: 145142 **SCC:** 30502011 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Hauling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Miles	0	0	**0**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **0**

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 1.34 Pounds **Numerator Units** / Miles **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 70 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 26.40 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.007 Pounds **Numerator Units** / Miles **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 70 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

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COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
13	35579	Truck Unloading to Feeder F-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35416 — **Name: Truck Unloading to Feeder F-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 142420 **SCC:** 30502031 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
785	6000	**1613794**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: AP-42 Factors

EmissionFactor: 0.000016

Numerator Units: Pounds

Denominator Units: Tons

Reference:

Factor Includes Control Efficiency?

Trace: x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.0140 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
14	35580	Front-end Loader to Rock Truck

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35417 — **Name: Front-end Loader to Rock Truck** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 142421 **SCC:** 30502033 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Loading: Front End Loader

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	75	575	**153065**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.2220** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.1390 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
15	35581	Rock Truck to Rail Car

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35418 — **Name: Rock Truck to Rail Car** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142422 **SCC:** 30502031 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	75	575	**153065**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: **0.2220** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.1390 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 60 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
16	35583	Crusher CR-2 to Conveyor C-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35419 — **Name: Crusher CR-2 to Conveyor C-7** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142423 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
210	1420	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.1390 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
17	35584	Conveyor C-2 to Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35420 **Name: Conveyor C-2 to Screen S-2** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 142424 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units Tons

Maximum Hourly	Typical Daily	Actual Annual
400	2950	**766552**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: Permit Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: 0.11 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0.1390 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
18	35590	Screen S-2 to Conveyor C-5

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 35425 **Name: Screen S-2 to Conveyor C-5** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 142429 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
200	1450	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: Permit Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: 0.10 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0.0490 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
21	38267	Screen S-2

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805780

Emission Release Point ID: 38206 — **Name: Screen S-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145179 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
400	2900	**766552**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace		Total Actual Emissions
Permit Factors	0.0029	Pounds	Numerator Units		(<0.001 tons)	0.10 Tons
Reference		Factor Includes Control Efficiency? x	Tons Denominator Units			

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0.0490	Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace		Total Actual Emissions
AP-42 Factors	0.00005	Pounds	Numerator Units	x	(<0.001 tons)	0 Tons
Reference		Factor Includes Control Efficiency?	Tons Denominator Units			

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
22	38270	Screen S-3 to Conveyor C-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38209 — **Name: Screen S-3 to Conveyor C-10** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145182 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
165	1175	**306621**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
23	38272	Conveyor C-5 to Conveyor C-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805780

Emission Release Point ID: 38211 — **Name: Conveyor C-5 to Conveyor C-6** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 145184 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	200	1465	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace	
Permit Factors	0.0029	Pounds	**Numerator Units**		(<0.001 tons)
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace	
AP-42 Factors	0.000013	Pounds	**Numerator Units**	x	(<0.001 tons)
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**		

Total Actual Emissions: **0** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
24	38274	Fuel Storage Tank

Notes	Unit Type	Status	Latitude	Longitude
	Storage Tank	Operating	36.228190	-95.805780

Emission Release Point ID: 38213 — **Name: Diesel Tank** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	5

Process Data

Process ID: 145187 **SCC:** 42500102 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Working Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Gallons	200	1460	**382194**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **8760**

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* **CAS Number:**

Calculation Method: TANKS **EmissionFactor:** 0 **Numerator Units:** *N/A - Formula, Software, or CEMS

Reference: Factor Includes Control Efficiency? **Denominator Units:** *N/A - Formula, Software, or CEMS

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.01 Tons/Year

Process ID: 145186 **SCC:** 42500101 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, , , Fixed Roof Tanks (210 Bbl Size) Breathing Loss

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Gallons		
Maximum Hourly	**Typical Daily**	**Actual Annual**	
200	1460	**382194**	

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **8760**

Typical Operating Periods (when process is operational)

Hours/Day 24 **Days/Week** 7 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* **CAS Number:**

Calculation Method: TANKS **EmissionFactor:** 0 *N/A - Formula, Software, or CEMS **Numerator Units**

Reference: Factor Includes Control Efficiency? *N/A - Formula, Software, or CEMS **Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions **0** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions 0 **Tons**

Amount allowed 0.01 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
25	45812	Conveyor C-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45698 — **Name: Conveyor C-9 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154726 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	45	290	**76655**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
28	45822	Crusher CR-3 to Conveyor C-12

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45707 — **Name: Crusher CR-3 to Conveyor C-12** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154739 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
165	1175	**306621**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace		Total Actual Emissions
Permit Factors	0.0029	Pounds	Numerator Units	x	(<0.001 tons)	0 Tons
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units			

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)		Excess Emissions	Tons
100	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace		Total Actual Emissions
AP-42 Factors	0.000013	Pounds	Numerator Units	x	(<0.001 tons)	0 Tons
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units			

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)		Excess Emissions	Tons
100	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%)	0	Amount allowed	0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
29	45823	Conveyor C-11 to Crusher CR-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45708 — **Name: Conveyor C-11 to Crusher CR-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 154740 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
165	1175	**306621**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
32	45827	Conveyor C-7 to Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 45711 — **Name: Conveyor C-7 to Screen S-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 154743 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
200	1475	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
33	48741	Screen S-1 to Conveyor C-1a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48668 — **Name: Screen S-1 to Conveyor C-1a** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
130680	10

Process Data

Process ID: 158411 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
400	3100	**806897**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: **0.11** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
34	48742	Conveyor C-1a to Conveyor C-1b

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48669 — **Name: Conveyor C-1a to Conveyor C-1b** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158413 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
400	3100	**806897**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	**Numerator Units**
Reference AP-42	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.11** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions 0 **Tons**

Amount allowed 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions 0 **Tons**

Amount allowed 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
35	48743	Conveyor C-1b to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48670 — **Name: Conveyor C-1b to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	20

Process Data

Process ID: 158414 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	400	3100	**806897**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **2089**

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: **0.11** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
36	48744	Screen S-1 to Conveyor C-1c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48671 — **Name: Screen S-1 to Conveyor C-1c** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158415 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
400	3100	**806897**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units** / Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: 0.11 **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units** / Tons — **Denominator Units**

Trace x — (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
37	48745	Conveyor C-1c to Conveyor C-1d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48672 — **Name: Conveyor C-1c to Conveyor C-1d** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158416 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
400	3100	**806897**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.11** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
38	48746	Conveyor C-1d to Conveyor C-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48673 — **Name: Conveyor C-1d to Conveyor C-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158417 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
400	3100	**806897**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

		Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0 N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: 0.11 **Tons**

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.2610 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:** AP-42

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — x — (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
39	48747	Conveyor C-3 to Conveyor C-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48674 — **Name: Conveyor C-3 to Conveyor C-4** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158418 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	150	**40345**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0.0060 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
40	48748	Conveyor C-4 to Conveyor C-4a

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48675 — **Name: Conveyor C-4 to Conveyor C-4a** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158419 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	150	**40345**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
41	48749	Conveyor C-4a to C-11

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48676 — **Name: C-4a to C-11** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158420 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
25	150	**40345**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference:

Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0.0060 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds (**Numerator Units**) / Tons (**Denominator Units**)

Reference:

Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
42	48751	Crusher CR-2

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 48680 — **Name: Crusher CR-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13068000	10

Process Data

Process ID: 158440 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
200	1450	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
Permit Factors	0.0024	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0001	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
43	48752	Screen S-3

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 48681 — **Name: Screen S-3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158441 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	200	1450	**383276**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.00005 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
44	48753	Conveyor C-8 to Conveyor C-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48682 — **Name: Conveyor C-8 to Conveyor C-9** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158442 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
45	285	**76655**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.0029 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
45	48754	Frontend loader to feed bins

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48683 — **Name: Frontend loader to feed bins** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158443 **SCC:** 30502017 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	300	2200	**574687**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace	
AP-42 Factors	0.0029	Pounds	**Numerator Units**		(<0.001 tons)
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Total Actual Emissions: **0.41** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	**Tons**
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor			Trace	
AP-42 Factors	0.000013	Pounds	**Numerator Units**	x	(<0.001 tons)
Reference AP-42	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**		

Total Actual Emissions: **0** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	90	0	**Tons**
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
46	48755	Feed bins to gathering belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48684 — **Name: Feed bins to gathering belt** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158444 **SCC:** 30502017 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	300	2200	**574687**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: 0.10 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
47	48756	Gathering belt to feed belt

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48685 — **Name: Gathering belt to feed belt** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158445 **SCC:** 30502017 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Pugmill

Process Material: Limestone

Material I/O: Produced (Output)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	300	2200	**574687**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace — (<0.001 tons)

Total Actual Emissions: 0.10 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:** AP-42

Pounds — **Numerator Units**

Tons — **Denominator Units**

Trace x — (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 90

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
48	48757	Railcar to Subsurface Bin

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48686 — **Name: Railcar to Subsurface Bin** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	10

Process Data

Process ID: 158446 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	20	125	**29480**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
49	48758	Subsurface bin to Conveyors C-a thru C-c

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48688 **Name: Subsurface bin to Conveyors C-1 thru C-c** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	1

Process Data

Process ID: 158447 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	125	**29480**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **2089**

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.000013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
50	48759	Conveyors C-a thru C-c to Conveyor C-d

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48689 **Name: Conveyors C-a thru C-c to Conveyor C-d** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
13006800	5

Process Data

Process ID: 158448 **SCC:** 30502006 **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	125	**29480**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.0029 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* **CAS Number:**

Calculation Method: AP-42 Factors **EmissionFactor:** 0.00013 Pounds **Numerator Units** / Tons **Denominator Units**

Reference: AP-42 Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 **Primary Control Device:** Dust Suppression **Primary Efficiency (%):** 90 **Secondary Control Device:** * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
51	48760	Conveyor C-d to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 48690 — **Name: Conveyor C-d to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1306800	15

Process Data

Process ID: 158449 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Crushed Stone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	20	125	**29480**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 2089

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:** AP-42

Numerator Units: Pounds — **Denominator Units:** Tons

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 90 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
52	76304	Truck Unloading to Portable Crusher Plant Feeder

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76302 — **Name: Truck Unloading to Feeder** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189501 **SCC:** 30502031 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Truck Unloading

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
260	2000	**382750**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: *Chromium and Chromium compounds* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000016 Pounds — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — Tons — **Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions 0 Tons

Amount allowed 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
53	76307	Portable Plant Feeder (PPF-1) to Crusher PPCR-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76303 — **Name: PPF-1 to PPCR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189502 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
260	2000	**382750**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0019	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.39 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
54	76308	Primary Crusher PPCR-1

Notes	Unit Type	Status	Latitude	Longitude
	Crusher	Operating	36.228190	-95.805790

Emission Release Point ID: 76304 — **Name: Primary Crusher PPCR-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189503 **SCC:** 30502001 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Primary Crushing

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	260	2000	**382750**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0024	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: 0.38 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	70	0	**Tons**
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0001	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency?	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	70	0	**Tons**
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
55	76309	Primary Crusher PPCR-1 to Conveyor PPC-1

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76305 — **Name: PPCR-1 to PPC-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189504 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
260	2000	**382750**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.39 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	70	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	70	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
56	76310	Conveyor PPC-1 to Conveyor PPC-2

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76306 — **Name: PPC-1 to PPC-2** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189505 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
260	2000	**3827500**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: 0.39 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace: x — (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
57	76311	Primary Screen PPSC-1

Notes	Unit Type	Status	Latitude	Longitude
	Screen	Operating	36.228190	-95.805790

Emission Release Point ID: 76307 — **Name: Primary Screen PPSC-1** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189506 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
260	2000	**382750**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.39** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
58	76314	Screen PPSC-1 to Underbelly Belt PPC-3

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76309 — **Name: PPSC-1 to PPC3** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189507 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
260	2000	**382750**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace — (<0.001 tons)

Total Actual Emissions: 0.39 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Factor Includes Control Efficiency? — **Reference:**

Numerator Units: Pounds — **Denominator Units:** Tons

Trace x — (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons — **Amount allowed:** 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
59	76316	Conveyor PPC-3 to Conveyor PPC-4

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76311 — **Name: PPC-3 to PPC-4** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189509 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
160	1200	**229650**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.23 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
60	76317	Conveyor PPC-4 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76312 — **Name: Conveyor PPC-4 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189510 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
160	1200	**229650**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: 0.23 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	70	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	Numerator Units
Reference	Factor Includes Control Efficiency?	Tons	Denominator Units

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
100	Dust Suppression	70	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
61	76318	Screen PPSC-1 to Conveyor PPC-10

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76313 — **Name: PPSC-1 to PPC-10** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189511 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
30	200	**38275**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
62	76319	Screen PPSC-1 to Conveyor PPC-5

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76314 — **Name: PPSC-1 to PPC-5** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189512 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	100	**19138**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
63	76320	Conveyor PPC-5 to Conveyor PPC-6

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76315 — **Name: PPC-5 to PPC-6** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189513 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	100	**19138**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
100	Dust Suppression	70	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

2015 AIR EMISSIONS INVENTORY
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Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
64	76321	Conveyor PPC-6 to Conveyor PPC-7

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76316 — **Name: PPC-6 to PPC-7** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189514 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	100	**19138**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
65	76322	Conveyor PPC-7 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76317 — **Name: PPC-7 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189515 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
20	100	**19138**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * PM-10 (All Particulate Matter <10 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * PM-2.5 (All Particulate Matter <2.5 microns) — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
66	76323	Conveyor PPC-10 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76318 — **Name: PPC-10 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189516 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
30	200	**38275**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference:

Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: Permit Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference:

Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: 0 Tons

Capture efficiency (%): 100

Primary Control Device: Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 Tons

Amount allowed: 0 Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
67	76324	Screen PPSC-1 to Conveyor PPC-8

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76319 — **Name: PPSC-1 to PPC-8** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	10

Process Data

Process ID: 189517 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	70	350	**95688**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.0029	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	0.000013	Pounds	**Numerator Units**
Reference	Factor Includes Control Efficiency? ☐	Tons	**Denominator Units**

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
68	76325	Conveyor PPC-8 to Conveyor PPC-9

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76320 — **Name: PPC-8 to PPC-9** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	5

Process Data

Process ID: 189518 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	70	350	**95688**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 Pounds / Tons — **Numerator Units** / **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace x (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
69	76326	Conveyor PPC-9 to Pile

Notes	Unit Type	Status	Latitude	Longitude
	Transfer Point	Operating	36.228190	-95.805790

Emission Release Point ID: 76321 — **Name: PPC-9 to Pile** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
653400	15

Process Data

Process ID: 189519 **SCC:** 30502006 — **Is Process Data Confidential?** N

Process Description: Industrial Processes, Mineral Products, Stone Quarrying - Processing (See also 305320), Miscellaneous Operations: Screen/Convey/Handling

Process Material: Limestone

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
70	350	**95688**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 1543

Typical Operating Periods (when process is operational)

Hours/Day 6 — **Days/Week** 5 — **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 — **Summer** 0.25 — **Fall** 0.25 — **Winter** 0.25

Emissions from this Process

Pollutant: * *PM-10 (All Particulate Matter <10 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.0029 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.10** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: * *PM-2.5 (All Particulate Matter <2.5 microns)* — **CAS Number:**

Calculation Method: AP-42 Factors — **EmissionFactor:** 0.000013 — Pounds — **Numerator Units** — Tons — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☒ (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Dust Suppression — **Primary Efficiency (%):** 70

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
70	76327	800 HP Cat Portable Plant Diesel Generator Engine

Notes	Unit Type	Status	Latitude	Longitude
	Reciprocating IC Engine	Operating	36.228190	-95.805790

Emission Release Point ID: 76322 **Name: Diesel Generator Engine Exhaust Stack** **Type: Vertical** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	11	0.67	515	2350

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
0	0

Process Data

Process ID: 189520 **SCC:** 20200102 **Is Process Data Confidential?** N

Process Description: Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating

Process Material: Distillate Oil (Diesel)

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Gallons	9	50	**12818**

Combustion Processes

Fuel Heat Input Design Capacity: 800 HORSEPOWER

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	115	MMBTU/1000 GAL	0	0

Actual Hours/Year: **1543**

Typical Operating Periods (when process is operational)

Hours/Day 6 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Carbon Monoxide* **CAS Number:** 630080

Calculation Method	EmissionFactor		
Manuf. Test Data (w/ DEQ approval)	8.5	Grams	Numerator Units
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **11.56** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

Pollutant: * *Nitrogen Oxides - NOx* **CAS Number:**

Calculation Method	EmissionFactor		
Manuf. Test Data (w/ DEQ approval)	6.9	Grams	Numerator Units
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units

Trace (<0.001 tons)

Total Actual Emissions: **9.38** Tons

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	Tons/Year

Pollutant: * PM-10 (All Particulate Matter <10 microns) **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	0.4	Grams	Numerator Units	(<0.001 tons)	0.54 Tons
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * Sulfur Oxides - SOx **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	0	*N/A - Formula, Software, or CEMS	Numerator Units	x (<0.001 tons)	0 Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: * Total VOC **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Manuf. Test Data (w/ DEQ approval)	1	Grams	Numerator Units	(<0.001 tons)	1.36 Tons
Reference	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	
0	* Uncontrolled	0	0	Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC — **COMPANY ID: 1739**

FACILITY NAME: GREENHILL MATL — **FACILITY ID: 3421**

Sequence	Emission Unit ID	Emission Unit Name
71	93991	John Deere 150hp Diesel Pump Engine

Notes	Unit Type	Status	Latitude	Longitude
	Reciprocating IC Engine	Operating	36.225760	-95.8074

Emission Release Point ID: 93685 **Name: Engine exhaust stack** **Type: Vertical with rain cap** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	6	0.33	900	900

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
0	0

Process Data

Process ID: 210124 **SCC:** 20200102 **Is Process Data Confidential?** N

Process Description: Internal Combustion Engines, Industrial, Distillate Oil (Diesel), Reciprocating

Process Material: Diesel

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Gallons

Maximum Hourly	Typical Daily	Actual Annual
2	12	**3277**

Combustion Processes

Fuel Heat Input Design Capacity: 150 HORSEPOWER

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	115	MMBTU/1000 GAL	0	0

Actual Hours/Year: **2089**

Typical Operating Periods (when process is operational)

Hours/Day 8 **Days/Week** 5 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Carbon Monoxide* **CAS Number:** 630080

Calculation Method	EmissionFactor		
AP-42 Factors	3.033	Grams	**Numerator Units**
Reference Talbe 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions **5.61** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * *Nitrogen Oxides - NOx* **CAS Number:**

Calculation Method	EmissionFactor		
AP-42 Factors	14.07	Grams	**Numerator Units**
Reference Table 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions **26.03** **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: * PM-10 (All Particulate Matter <10 microns) **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	1	Grams	Numerator Units	(<0.001 tons)	1.85 Tons
Reference: Table 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)						
0	Primary Control Device	* Uncontrolled	Primary Efficiency (%)	0	Excess Emissions 0	Tons
	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed 0	Tons/Year

Pollutant: * Total VOC **CAS Number:**

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
AP-42 Factors	1.1	Grams	Numerator Units	(<0.001 tons)	2.11 Tons
Reference: Table 3.3.1	Factor Includes Control Efficiency?	Horsepower-hours	Denominator Units		

Capture efficiency (%)						
0	Primary Control Device	* Uncontrolled	Primary Efficiency (%)	0	Excess Emissions 0	Tons
	Secondary Control Device	* Uncontrolled	Secondary Efficiency (%)	0	Amount allowed 0	Tons/Year

COMPANY NAME: SHERWOOD CONSTRCTN CO INC **COMPANY ID: 1739**
FACILITY NAME: GREENHILL MATL **FACILITY ID: 3421**

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT
* Carbon Monoxide	630080	17.17
* Nitrogen Oxides - NOx		35.41
* Sulfur Oxides - SOx		0

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Total VOC		3.47	

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* PM-10 (All Particulate Matter <10 microns)		84.2930	N
* PM-2.5 (All Particulate Matter <2.5 microns)		1.30	N
Chromium and Chromium compounds		0	Y

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: SHERWOOD CONSTRCTN CO INC

"I certify:
(a) That I am the Responsible Official for SHERWOOD CONSTRCTN CO INC as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ **Date:** _____ **Title:** _____

DEQ Form #100-730	FINAL 2015 EMISSIONS INVENTORY	Final Submission Made: 1/25/2016 10:46 AM

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT – STORM WATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Inspection ID Number: _____ Activity type (check only one) ☐ **Construction** (OKR10) ☒ **Industrial** (OKR05)

Complaint Number: _____ OPDES Authorization No. **OKR10/OKR05** 2614 County Tulsa

Greenhill Concrete	1601 E. Hanston Ave	Broken Arrow	74012
Site/Facility Name	Site/Facility Address	City	Zip
Sherwood Construction Co.	P.O. Box 10	Catoosa	74015
Owner Name	Address	City	Zip
Richard Dunaurnt	Plant Manager	918-345-9360	
Contact Name	Title	Phone Number	

The below listed references are cited in the General Permit for Construction Activities OKR10, and the General Permit for Storm Water discharges from Industrial Facilities OKR05.

SECTIONS	REFERENCES Const.	REFERENCES Ind.	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
PERMIT VERIFICATION	Part 1.4.1.C	Part 1.3.1	**Facility permitted: Authorization on file**	*01		SWP3 needs cert page signed and updated to show only 1 outfall
	Part 1.4.1	Part 1.3.1	**SWPPP developed**	*02		
	Part 4.3.2	Part 7.2	SWPPP posted at the construction or facility site or is locally available	03		
OPERATIONS	Part 4.5.7	Part 4.2.7	**BMP properly implemented in accordance with SWPPP**	*04	X	chemical barrels (Acid) Next to FOG need to be placed in secondary containment, gas can (full) sitting on ground next to FOG
	Part 4.5.6.A	N/A	Silt barriers in place, effective and maintained	05		
	Part 4.5.6.A.3	N/A	Sediment basins (if required) adequate and maintained as required	06		
	Part 4.5.8	Part 4.2.10	Inspection of BMPs at required frequency and documented in SWPPP	07		
	Part 4.5.6.A.2	N/A	Vegetation established on completed areas	08		
	Part 4.5.6.C.2	Part 4.2.9	Offsite tracking of mud, sediment and/or materials prevented	09		
	Part 4.5.6.C	Part 4.2.9	Other control measures implemented	I0		
	Part 3.1	Part 1.1.1	**Non-Allowable Discharges Prevented**	*11	X	UBN-storm water discharges from SW outfall *walked water path back, seems to be coming from under concrete slab somewhere
	N/A	Part 5.1	Quarterly visual monitoring performed from representative outfalls; visual examination reports maintained onsite with the SWP3	I2		
	N/A	Part 5.2	Numeric Effluent Limitation Monitoring performed (if required); NELM reports maintained onsite with SWP3	13		
	N/A	Part 6.3	Annual Comprehensive Site Compliance Evaluation Report completed and submitted for previous permit year	I4		
TERMINATION REQUIREMENTS						
TERMINATION / INSPECTION REQUEST	Part 1.5.2.A	Sector D Sector E	**Final Stabilization Completed**	*15		
	Part 1.5.2.B	Part 1.4.2	**Operations have ceased**	*16		
	Part 1.5.3	N/A	**Facility Ready to Terminate**	17		
	N/A	Part 1.4.2	**Permitted discharges have ceased**	*18		

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist _____ Employee ID# _____

Copy received by _____ Title Plant mgr

NOTICE TO COMPLY BY: 8/31/2016

FACILITY STATUS
- ☐ 19: Repeat Violation(s)
- ☐ 20: Under Current Enforcement
- ☐ 21: No Violation Noted

ACTION
- ☐ 30: None
- ☐ 31: Refer to WQD

PURPOSE OF VISIT
- ☒ 22: Routine Inspection
- ☐ 23: Complaint
- ☐ 24: Follow-up
- ☐ 25: Emergency/Disaster
- ☐ 26: Training/Technical Assistance
- ☐ 27: Termination
- ☐ 28: Inspection Request
- ☐ 29: Referral Inspection

Date: 7/27/2016

Total number of items marked: 2

Number of critical items marked: 2

ITEM NO.	CRITICAL ITEMS
*01	**Facility permitted: Authorization on file** – A Permit must be obtained that authorizes the discharge of storm water and an NOI must be on file
*02	**SWPPP developed**– Each construction or industrial facility must have a pollution plan developed.
*04	**BMP properly implemented in accordance with SWP3** - Best management practices (sediment control measures, good housekeeping) must be implemented as stated in the SWP3.
*11	**Non-Allowable Discharges Prevented** – Facilities or activities are authorized for the discharges for which the general permit applies. Any discharges that are not compliant with the eligibility conditions of the general permit are not authorized by the general permit. Ineligible discharges must be permitted by an appropriate permit (individual or alternative) to be compliant.
*15	**Final Stabilization completed** – Site must be stabilized to within 70% of the original natural vegetative ground cover. If the original natural vegetative ground cover was 50% then the required vegetative stabilization required is 35% (.50 X .70 = .35); temporary erosion and sediment control measures have been removed or will be removed at an appropriate time to ensure final stabilization is maintained. This requirement is also for the termination of asphalt batch plants (Sector D) and concrete batch plants (Sector E) of the Industrial Storm Water Permit (OKR05).
*16	**Operations have ceased** - Facility is closed and no longer in operation or there is no further construction activity occurring.
*18	**Permitted discharges have ceased** – The facility may be in operation but the authorized activity is no longer in operation (e.g. have changed SIC or NAC code)
	NON-CRITICAL ITEMS
03	SWPPP posted at the construction or facility site or locally available
05	Silt barriers in place, effective and maintained – All barriers described in the SWP3 must maintained and effective in controlling sediment leaving the construction site.
06	Sediment basins (if required) adequate and maintained as required – Sediment basins must be adequate size (3600 cubic feet/acre) and maintained (cleaned out when storage capacity is reduced by 50%). Required if stated in SWP3 or site is greater than 10 acres without site constraints.
07	Inspection of BMPs at required frequency and documented – Owner/operators of construction sites are required to conduct inspections of the sediment control measures every 14 days, maintain records of the inspections and modify the SWPPP as needed. For industrial facilities, the frequency is determined by the SWPPP and is to be completed by qualified personnel. The SWPPP is to be updated within 14 days of the inspection. All results and corrective actions must be documented in the SWPPP.
08	Vegetation established on completed areas – As sections of a project are completed vegetative stabilization is initiated.
09	Offsite tracking of mud and sediment prevented – Offsite tracking of mud and sediment by construction vehicles to be prevented. Areas that have evidence of offsite tracking are to be cleaned.
10	Other control measures implemented – Other control measures as stated in the General Permit must be met to minimize solid material from entering waters of the state. No solid materials, including floatable debris may be discharged. Generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized.
12	The requirements and procedures for quarterly visual monitoring are applicable to all industrial facilities covered under the general storm water permit, regardless of the facility's sector or SIC code (except those that qualify for No Exposure). The requirements and procedures are found in part 5.1.1 of the general permit and the results must be documented and maintained onsite with the SWPPP.
13	NELM Reports submitted and maintained - Table 1-3 of Part 1.3 of the general permit identifies industrial storm water discharges subject to Numeric Effluent Limitation Monitoring (NELM). Industry specific numerical limitations and compliance monitoring requirements are described in Part 12 of the general permit. The requirements and procedures are found in Part 5.2 and the results must be documented and maintained onsite with the SWPPP, and submitted to the DEQ on a Discharge Monitoring Report (DMR).
14	An Annual Comprehensive Site Compliance Evaluation Report (ACSCER) must be completed by all industrial facilities covered by the general permit. The ACSCER must be filed during the period October 2 to October 1 each year and submitted to DEQ no later than December 1 and maintained with the SWPPP. The requirements for completing the ACSCER are found in Part 4.8 of the general permit.
17	Facility has met the final stabilization requirements under permit OKR10 and may submit a Notice of Termination form (605-003)

ADDITIONAL COMMENTS

MEMORANDUM

DATE : July 8, 2005

TO : File

FROM : David Youngman
Environmental Programs Specialist

THROUGH : Rhonda Jeffries
Environmental Programs Manager

SUBJECT : Sherwood Construction – Closure Memorandum
Enforcement Case 1546

On February 4, 2005, an unannounced air quality full compliance evaluation was conducted at the Sherwood Construction Greenhill Materials rock crushing plant located in Rogers County, OK. As a result of the inspection a Level 3 Letter was issued on March 9, 2005.

Issue #1
As a result of the inspection on February 14, 2005, the inspectors learned that Greenhill Materials has not submitted any Annual Emissions Inventories.

The facility submitted the 2002, 2003, and 2004 Annual Emissions Inventories on May 9, 2005.

Issue #2
Information gathered during the inspection indicated that the facility did not conduct Reference Method 9 testing as required in Permit No. 99-034-O, Specific Condition 6.

The facility conducted Method 9 Visual Emissions Testing on March 14-16, 2005. The results were submitted to the DEQ on March 29, 2005.

Issue #3
At the time of the inspection, the facility was not recording the daily use of water for particulate matter control as required in Permit No. 99-034-O, Specific Condition 12.

On April 12, 2005, the facility submitted the new record used to record the daily use of water for particulate matter control, which the facility started recording on April 1, 2005.

Issue #4
Finally, the inspectors learned that the Facility has replaced the original screen with a 6' x 16' Cedar Rapids screen, added an 8' x 20' Simplicity wet screen, and added additional conveyors to transport crushed rock to rail cars. The DEQ records indicate that this

equipment was installed without obtaining either an applicability determination or a permit modification.

On June 2, 2005, the facility submitted a new permit application for the facility. Permit No. 2005-012-O is currently under administrative review.

No other compliance measures were required for this case and it is now closed.

ENERCON SERVICES, INC.
An Employee Owned Company

5100 E. Skelly Dr., Suite 450
Tulsa, OK 74135
(918) 665-7693
(918) 665-7232 - Fax
(800) 735-7693

RECEIVED
APR 12 2005
DEPT. OF ENVIRONMENTAL QUALITY
REGIONAL OFFICE AT TULSA

April 11, 2005
ENMISC0336

Ms. Rhonda Jeffries
Environmental Programs Manager
Oklahoma Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly Drive
Tulsa, OK 74105

RE: SECOND RESPONSE TO COMPLIANCE LETTER OF MARCH 9, 2005 GREENHILL MATERIALS SHERWOOD CONSTRUCTION LIMESTONE QUARRY.

Dear Ms. Jeffries:

Attached please find daily water usage report forms that our client, Greenhill Materials/Sherwood Construction has developed for its rock crushing operation. The Company will begin using the Crusher water record form upon installation of the water meter that has been ordered for this purpose.

We are proceeding with preparation of the construction permit application and the AEI's referenced in my letter of March 29, 2005. Per instructions from John Munro of your agency, these reports will be filed in hard copy format.

Please contact me at (Rbeeson@enercon.com) or 665-7693, ext. 317 if you or your staff have any questions.

Sincerely

ENERCON SERVICES, INC.

Randal J. Beeson
Senior Project Manager

Attachments

CC: Greenhill Materials

GREENHILL MATERIALS

DAILY WATER USAGE REPORT
FOR P. M. CONTROL AT CRUSHER

Day	January	February	March	April	May	June	July	August	September	October	November	December
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
	0	0	0	0	0	0	0	0	0	0	0	0

Waiting On Water Meter To install at Crusher
It was ordered 4/5/05

GREENHILL MATERIALS

LOAD REPORT FOR WATER USAGE ON HAULROADS

Day	January	February	March	April	May	June	July	August	September	October	November	December
1				48,000								
2												
3												
4				40,000								
5				24,000								
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
	0	0	0	112000	0	0	0	0	0	0	0	0

Each load is 8,000gal.

2002 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100

GREENHILL MATERIALS SHERWOOD CONST

LIMESTONE QUARRY ROCK CRUSHER LOADOUT AREA

TEAM ID 3421

Company Mailing Address	4716 N 193RD E AVE		
	CATOOSA	OK	74015
Facility Physical Address	2.1 MI W ON HWY 266		
	CATOOSA	OK	74015
Driving Directions	From intersection of 193rd E Ave. and Hwy 266 (Port Rd), proceed W 2.1 mi on Hwy. 266, turn right at entrance to the crusher haul road		

Ownership

Select one event:

- No-Change
- Sold
- Dismantled
- Acquired
- New

Start Date:

Stop Date:

Comments:

Responsible Official

Name:	NONE
Phone:	
Fax:	
E-mail:	DO NOT CHANGE

Status:	Active
NAICS:	212312
EPA:	
SIC:	1422
Dunn and Brad:	
TRI:	
ORIS:	

Comments from this facility:

Facility did not operate a full year.

Location

County:	ROGERS		
Sec Loc:		Section:	10
Town:	20N	Range:	14E

UTM

Horz:		Latitude:	
Vert:		Longitude:	
Zone:			

Issued Permits:

99-034-O	2/8/2002
99-034-C	10/5/1999

Inventory Format for Next Year:

○Hard Copy ○Snapshot ○AEI ◉DNI

20 02 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 1 Point Name: Crusher A

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
Primary Crusher	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							App. 10

SCC: Process Description: 3050200600 Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 442.4 Daily: Annual: 212,797

Capacities: Design: Max:

MACT: Code: Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 481

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.13

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	75		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

20 02 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 2 | Point Name: Crusher E

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
Secondary Crusher	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: Process Description: 3050200600 | Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 | Summer: 25 | Fall: 25 | Winter: 25

Rates: Hourly: 442.4 | Daily: | Annual: 212,797

Capacities: Design: | Max:

MACT: Code: | Compliance:

Temporal: (24hr Clock) Start: | Stop: | Hours/Day: 24 | Days/Week: 7 | Weeks/Year: 52 | Hours/Year: 481

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):
		0.13

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	75		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

20 02 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence [redacted] Point Name: Storage Piles

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitives							app. 15

SCC | Process Description | Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring 25 | Summer 25 | Fall 25 | Winter 25

Rates: Hourly 442.4 | Daily | Annual 212,797

Capacities: Design | Max

MACT: Code NA | Compliance

Temporal: (24hr Clock) Start | Stop | Hours/Day 24 | Days/Week 7 | Weeks/Year 52 | Hours/Year 481

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.17

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	70		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

20 02 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 4 Point Name: Plant Roads

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							0

SCC: Process Description: Units: VMT

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 9.1 VMT Daily: Annual: 4383 VMT

Capacities: Design: Max:

MACT: Code: Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 481

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		1.83 TPY

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

POLLUTANT NAME: PM_{10}

Allowed:	Excess (tons):	Amount (tons):
		0.88

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

20 02 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 5 Point Name: Haul Roads

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							0

SCC: Process Description: Units: VMT

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 14.1 VMT Daily: Annual: 6,762 VMT

Capacities: Design: Max:

MACT: Code: Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 481

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		1.89

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	70		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):
		1.82

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	70		

2002 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

(Please Update with 2004 Totals)

LIMESTONE QUARRY ROCK CRUSHER LOADOUT AREA

3421

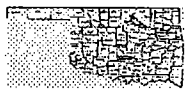
"I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: John Curtis

Signature: John C Curtis Date: 9 May 05 Title: Manager

2003 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100



GREENHILL MATERIALS SHERWOOD CONST

LIMESTONE QUARRY ROCK CRUSHER LOADOUT AREA

TEAM ID 3421

Company Mailing Address	4716 N 193RD E AVE		
	CATOOSA	OK	74015
Facility Physical Address	2.1 MI W ON HWY 266		
	CATOOSA	OK	74015
Driving Directions	From intersection of 193rd E Ave. and Hwy 266 (Port Rd), proceed W 2.1 mi on Hwy. 266, turn right at entrance to the crusher haul road		

Ownership

Select one event:

No Change	
Sold	
Dismantled	
Acquired	
New	

Start Date: Stop Date:

Comments:

Status:	Active
NAICS:	212312
EPA:	
SIC:	1422
Dunn and Brad:	
TRI:	
ORIS:	
Issued Permits:	99-034-O 2/8/2002 99-034-C 10/5/1999

Comments from this facility:

Inventory Format for Next Year:

○ Hard Copy ○ Snapshot ○ AEI ◉ DNI

Responsible Official

Name:	NONE
Phone:	
Fax:	
E-mail:	DO NOT CHANGE

Location

County:	ROGERS		
Sec.Loc:		Section:	10
Town:	20N	Range:	14E

UTM

Horz:		Latitude:	
Vert:		Longitude:	
Zone:			

20_03 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 1 | Point Name: Crusher A

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
Primary Crusher	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: 3050200600 | Process Description: | Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 | Summer: 25 | Fall: 25 | Winter: 25

Rates: Hourly: 325 | Daily: | Annual: 182,599

Capacities: Design: | Max:

MACT: Code: | Compliance:

Temporal: (24hr Clock) Start: | Stop: | Hours/Day: 24 | Days/Week: 7 | Weeks/Year: 52 | Hours/Year: 562

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.12

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	75		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

20_03 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 2 | Point Name: Secondary Crusher E

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: Process Description: 3050200600 | Units: Tons | Confidential | Sulfur % | Ash % | MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 | Summer: 25 | Fall: 25 | Winter: 25

Rates: Hourly: 325 | Daily: | Annual: 182,599

Capacities: Design: | Max:

MACT: Code: | Compliance:

Temporal: (24hr Clock) Start: | Stop: | Hours/Day: 24 | Days/Week: 7 | Weeks/Year: 52 | Hours/Year: 562

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.12

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	75		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

20_03 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 3 Point Name: Storage Piles

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 15

SCC: Process Description: Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 325 Daily: Annual: 182,599

Capacities: Design: Max:

MACT: Code: Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 562

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.15

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	70		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

DEQ OKLAHOMA

20_03 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence | Point Name: 4 | Haul Roads

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							0

SCC | Process Description | Units VMT

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring 25 | Summer 25 | Fall 25 | Winter 25

Rates: Hourly 10.3 | Daily | Annual 5813

Capacities: Design | Max

MACT: Code | Compliance

Temporal: (24hr Clock Start | Stop | Hours/Day 24 | Days/Week 7 | Weeks/Year 52 | Hours/Year 562

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		1.62

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

POLLUTANT NAME: PM_{10}

Allowed:	Excess (tons):	Amount (tons):
		1.56

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

20_03 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 6 | Point Name: Plant Roads

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							0

SCC | Process Description | Units: VMT

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 | Summer: 25 | Fall: 25 | Winter: 25

Rates: Hourly: 6.7 | Daily: | Annual: 3768

Capacities: Design: | Max:

MACT: Code: | Compliance:

Temporal: (24hr Clock) Start: | Stop: | Hours/Day: 24 | Days/Week: 7 | Weeks/Year: 52 | Hours/Year: 562

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		1.58

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

POLLUTANT NAME: PM10

Allowed:	Excess (tons):	Amount (tons):
		0.76

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

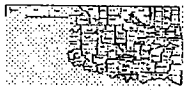
Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

2003 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

(Please Update with 2004 Totals)

LIMESTONE QUARRY ROCK CRUSHER LOADOUT AREA

3421



"I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: John Curtis

Signature: John R Curtis Date: 9 May 05 Title: Manager

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100

GREENHILL MATERIALS SHERWOOD CONST

LIMESTONE QUARRY ROCK CRUSHER LOADOUT AREA

TEAM ID 3421

Company Mailing Address	4716 N 193RD E AVE		
	CATOOSA	OK	74015
Facility Physical Address	2.1 MI W ON HWY 266		
	CATOOSA	OK	74015
Driving Directions	From intersection of 193rd E Ave. and Hwy 266 (Port Rd), proceed W 2.1 mi on Hwy. 266, turn right at entrance to the crusher haul road.		

Ownership

Select one event:

No Change	
Sold	
Dismantled	
Acquired	
New	

Start Date: Stop Date:

Comments:

Responsible Official

Name:	NONE
Phone:	
Fax:	
E-mail:	DO NOT CHANGE

Status:	Active
NAICS:	212312
EPA:	
SIC:	1422
Dunn and Brad:	
TRI:	
ORIS:	

Comments from this facility:

Issued Permits:

99-034-O	2/8/2002
99-034-C	10/5/1999

Inventory Format for Next Year:

○ Hard Copy ○ Snapshot ○ AEI ◉ DNI

Location

County:	ROGERS		
Sec Loc:		Section:	10
Town:	20N	Range:	14E

UTM

Horz:		Latitude:	
Vert:		Longitude:	
Zone:			

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

(Please Update with 2004 Totals)

LIMESTONE QUARRY ROCK CRUSHER LOADOUT AREA

3421

"I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: John Curtis

Signature: John R Curtis **Date:** 9 May 05 **Title:** Manager

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 1 Point Name: Feeder F-1 to Crusher CR-1

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
Feeder F-1 to Crusher CR-1	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: 3050200600 Process Description: Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 310 Daily: Annual: 466,187

Capacities: Design: Max:

MACT: Code: NA Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.14

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 2 Point Name: Crusher CR-1

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 15

SCC: Process Description: 3050200600 Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 310 Daily: Annual: 466,187

Capacities: Design: Max:

MACT: Code: NA Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.29

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	75		

POLLUTANT NAME: PM_{10}

Allowed:	Excess (tons):	Amount (tons):
		0.14

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 3 Point Name: Crusher CR-1 to Conveyor C-1

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 5

SCC: Process Description: 350200600 Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 310 Daily: Annual: 466,187

Capacities: Design: Max:

MACT: Code: NA Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.14

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 4 Point Name: Conveyor C-1 to Conveyor C-2

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 5

SCC: 350200600 Process Description: Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 310 Daily: Annual: 466,187

Capacities: Design: Max:

MACT: Code: NA Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.14 TPY

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Processed	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 5 | Point Name: Conveyor C-2 to Screen S-1

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: Process Description: 3050200600 | Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring 25 | Summer 25 | Fall 25 | Winter 25

Rates: Hourly 310 | Daily | Annual 466,187

Capacities: Design | Max

MACT: Code NA | Compliance

Temporal: (24hr Clock) Start | Stop | Hours/Day 24 | Days/Week 7 | Weeks/Year 52 | Hours/Year 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.14

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 6 | Point Name: Screen S-1

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: 350200600 | Process Description: | Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring 25 | Summer 25 | Fall 25 | Winter 25

Rates: Hourly 310 | Daily | Annual 466,187

Capacities: Design | Max

MACT: Code NA | Compliance

Temporal: (24hr Clock) Start | Stop | Hours/Day 24 | Days/Week 7 | Weeks/Year 52 | Hours/Year 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.51

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

POLLUTANT NAME: PM_{10}

Allowed:	Excess (tons):	Amount (tons):
		0.17

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 7 Point Name: Screen S-1 to Conveyor C-5

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 5

SCC: Process Description: 3050200600 Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring 25 Summer 25 Fall 25 Winter 25

Rates: Hourly 310 Daily Annual 466,187

Capacities: Design Max

MACT: Code NA Compliance

Temporal: (24hr Clock) Start Stop Hours/Day 24 Days/Week 7 Weeks/Year 52 Hours/Year 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.11

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 8 Point Name: Conveyor C-5 to Crusher CR-2

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive	Active						app. 10

SCC	Process Description	Units	Confidential	Sulfur %	Ash %	MMBTU
3050200200		Tons				

Seasonal Operation: (Decimal Percents)	Spring	Summer	Fall	Winter	Rates:	Hourly	Daily	Annual
	25	25	25	25		310		466,187

Capacities:	Design	Max	MACT:	Code	Compliance
				NA	

Temporal: (24hr Clock)	Start	Stop	Hours/Day	Days/Week	Weeks/Year	Hours/Year
			24	7	52	1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.11

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water spray	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 09 Point Name: Crusher CR-2

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 10

SCC: 350200600 Process Description: Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 310 Daily: Annual: 466,187

Capacities: Design: Max:

MACT: Code: NA Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.11

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water sprays	90		

POLLUTANT NAME:

Allowed:	Excess (tons):	Amount (tons):

Material:	Material I/O:	Calculation Method:	Units:	Factor:

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 10 Point Name: Storage Piles

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							app. 15

SCC: Process Description: Units: Tons

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 310 Daily: Annual: 466,187

Capacities: Design: Max:

MACT: Code: NA Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		0.38

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	70		

POLLUTANT NAME: PM_{10}

Allowed:	Excess (tons):	Amount (tons):
		0.18

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Water Sprays	70		

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 11 Point Name: Haul Roads

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitives							0

SCC: Process Description: Units: VMT

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 9.5 Daily: Annual: 14,828

Capacities: Design: Max:

MACT: Code: Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		4.14

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

POLLUTANT NAME: PM_{10}

Allowed:	Excess (tons):	Amount (tons):
		3.98

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

2004 AIR EMISSIONS INVENTORY TURN-AROUND DOCUMENT

FACILITY NAME:

Sequence: 12 Point Name: Plant Roads

Notes	Status	UTM Horz	UTM Vert	Latitude	Longitude
	Active				

Stack Name	Stack Type	Gas Exit (ft/s)	Stack Height(ft)	Stack Dia. (1/10 ft)	Stack Temp(F)	FlowRate(acfm)	Fugitive Ht. (ft)
Fugitive							0

SCC: Process Description: Units: VMT

Confidential	Sulfur %	Ash %	MMBTU

Seasonal Operation: (Decimal Percents) Spring: 25 Summer: 25 Fall: 25 Winter: 25

Rates: Hourly: 6.4 Daily: Annual: 9,612

Capacities: Design: Max:

MACT: Code: Compliance:

Temporal: (24hr Clock) Start: Stop: Hours/Day: 24 Days/Week: 7 Weeks/Year: 52 Hours/Year: 1505

POLLUTANT NAME: Particulates

Allowed:	Excess (tons):	Amount (tons):
		4.02

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors		

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

POLLUTANT NAME: PM10

Allowed:	Excess (tons):	Amount (tons):
		1.93

Material:	Material I/O:	Calculation Method:	Units:	Factor:
Limestone	Produced	AP-42 Factors	Tons	

Primary Control:	Efficiency %:	Secondary Control:	Efficiency %:
Watering	70		

ENERCON SERVICES, INC.
An Employee Owned Company

5100 E. Skelly Dr., Suite 450
Tulsa, OK 74135
(918) 665-7693
(918) 665-7232 - Fax
(800) 735-7693

RECEIVED
MAR 29 2005
DEPT. OF ENVIRONMENTAL QUALITY
REGIONAL OFFICE AT TULSA

March 29, 2005
ENMISC0336

Ms. Rhonda Jeffries
Environmental Programs Manager
Oklahoma Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly Drive
Tulsa, OK 74105

RE: RESPONSE TO COMPLIANCE LETTER OF MARCH 9, 2005
GREENHILL MATERIALS SHERWOOD CONSTRUCTION LIMESTONE QUARRY.

Dear Ms. Jeffries:

Sherwood Construction has retained Enercon Services, Inc. as its consultant to address the deficiencies identified in your letter of March 9, 2005 to Mr. Shawn Roberts. Please note the following with respect to specific deficiencies:

1. **Annual Emission Inventories (AEIs), Reporting Years 2002 Through 2004:**

   As you are aware, the deadline for submitting RY2004 AEIs has been extended to April 29, 2004. Enercon will file Greenhill's RY2004 AEI no later than that date. We are requesting a 15-day extension (to May 14, 2005) for submittal of the RY2002 and RY2003 reports for the facility.

2. **Method 9 Visual Emission (VE) Testing:**

   Greenhill contracted with Air Hygiene to conduct Method 9 VE testing. This work has been completed and a copy of Air Hygiene's report showing compliance with Subpart OOO requirements is attached.

3. **Failure to Maintain Records of Daily Water Use:**

   Greenhill has been maintaining monthly records of plant water use. The Company will begin maintaining daily records as soon as a master form has been developed. A copy of this form will be submitted under separate cover.

4. **Screen Replacement and Addition of Process Equipment:**

   Greenhill has previously replaced one of the original screens. In addition several conveyors two radial stackers and a rail loadout facility have been added. Enercon will prepare and submit a Construction Permit Application to ODEQ-ROAT for these changes. We are requesting an extension from April 8, 2005 to April 30 2005 to complete and submit this application. Upon approval of the Construction Permit, Enercon will prepare and submit an updated Operating Permit Application.

Please contact me at (Rbeeson@enercon.com) or 665-7693, ext. 317 if you or your staff have any questions.

Sincerely

ENERCON SERVICES, INC.

Randal J. Beeson
Senior Project Manager

Attachment

STACK EMISSIONS STUDY FROM THE CRUSHER AND CONVEYOR EQUIPMENT PREPARED FOR GREENHILL MATERIALS GREENHILL MATERIALS PLANT OWASSO, OKLAHOMA MARCH 14-16, 2005

www.airhygiene.com
toll-free (888) 461-8778
fax (918) 307-9131
© Air Hygiene International, Inc.

Corporate Headquarters
5634 S. 122nd E. Ave. Ste F
Tulsa, Oklahoma 74146
(918) 307-8865

Houston Office
1920 Treble Drive, Ste E-5
Humble, Texas 77338
(281) 540-5400

Denver Office
7515 South Revere Pkwy, Ste 603
Centennial, Colorado 80112
(303) 790-0665

Orlando Office
PMB 303, 4250 Alafaya Trail, Ste 212
Oviedo, Florida 32765
(407) 359-2297

STACK EMISSIONS STUDY
FROM THE
CRUSHER AND CONVEYOR
EQUIPMENT
PREPARED FOR
GREENHILL MATERIALS
GREENHILL MATERIALS PLANT
OWASSO, OKLAHOMA
MARCH 14-16, 2005

Prepared and Reviewed by:

Pandu Sattvika, Testing Specialist

Thomas K. Graham, PE, Project Manager

Quinn A. Bierman, President

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APPENDICES

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Stack Emissions Study
from the
Crusher and Conveyor Equipment
prepared for
Greenhill Materials
Owasso, Oklahoma
March 14-16, 2005

1.0 INTRODUCTION

Air Hygiene International, Inc. (Air Hygiene) has completed the stack sampling survey for opacity from the transfer points of the crusher and conveyor equipment, at Greenhill Materials's, Greenhill Materials Plant near Owasso, Oklahoma. This report details the background information, test results, process description, sampling/analysis methodology, and quality control/assurance activities of the stack sampling survey conducted on March 14-16, 2005.

1.1 TEST PURPOSE AND OBJECTIVES

The specific objective was to determine the visible emissions from the exhaust of Greenhill Materials's crusher and conveyor equipment, during normal operating conditions. This information will be used to confirm compliance with the air quality permit requirements.

1.2 SUMMARY OF TEST PROGRAM

The following list details pertinent information related to this specific project:

1.2.1 Participating Organizations:
- Oklahoma Department of Environmental Quality (ODEQ)
- Greenhill Materials
- Air Hygiene

1.2.2 Industry:
- Aggregate Processing

1.2.3 Plant Location:
- Greenhill Materials Plant near Owasso, Oklahoma

1.2.4 Equipment of Interest:
- Crusher and conveyor equipment

1.2.5 Emission points:
- Transfer points of the crusher and conveyor equipment

1.2.6 Pollutants to be Measured:
- Visible Emissions

1.2.7 Dates of Emission Test:
- March 14-16, 2005

1.3 KEY PERSONNEL

Greenhill Materials:	Shawn Roberts	918-625-3902
Air Hygiene:	Thomas Graham	918-307-8865
Air Hygiene:	Pandu Sattvika	918-307-8865

2.0 SUMMARY OF TEST RESULTS

2.1 EMISSION TEST RESULTS

Results from the sampling conducted at the Greenhill Materials Plant from the crusher and conveyor equipment, transfer points on March 14-16, 2005 are summarized in the following table.

TABLE 2.1
SUMMARY OF TEST RESULTS

Sample Point	Parameter				
	Average Opacity	Maximum Opacity	6 Minute Averages	6 Minute Maximum	Readings Above 10%
	(%)	(%)	(%)	(%)	(%)
Primary Crusher	0.71	5	0.69	1.60	0
Primary Crusher to Conveyor #1	0	0	0	0	0
Conveyor #1 to 6x16 Screen	0	0	0	0	0
Conveyor #3 to Conveyor #4	0	0	0	0	0
Conveyor #4 to Stockpile	0	0	0	0	0
Conveyor #5 to Conveyor #6	0	0	0	0	0
Conveyor #6 to Stockpile	0	0	0	0	0
Conveyor #7 to 2nd Crusher	0	0	0	0	0
2nd Crusher to Conveyor #8	2.00	5	1.89	3.94	0
Conveyor #8 to Conveyor #9	0	0	0	0	0
Conveyor #9 to 8x20 Screen	0	0	0	0	0
8x20 Screen to Conveyor #13	0	0	0	0	0
Conveyor #10 to Conveyor #15	0	0	0	0	0
Conveyor #10 to Sand Screw	0	0	0	0	0
Sand Screw to Conveyor #12	0	0	0	0	0
Conveyor #12 to Stockpile	0	0	0	0	0
Conveyor #13 to Conveyor #14	0	0	0	0	0
Conveyor #14 to Stockpile	0	0	0	0	0
Conveyor #15 to Conveyor #16	0	0	0	0	0
Conveyor #16 to Stockpile	0	0	0	0	0
Feed Hopper to 80' Belt	0	0	0	0	0
80' Belt to 350' Belt	0	0	0	0	0
350' Belt to Rail Cars	0	0	0	0	0

3.0 SOURCE OPERATION

3.1 PROCESS DESCRIPTION

Trucks feed raw materials to a main crusher. The resulting crushed materials are transported on a conveyor system to other processes and storage piles. The entire process is wetted by use of a continuous misting system.

4.0 SAMPLING AND ANALYTICAL PROCEDURES

4.1 TEST METHODS

The emission tests on the crusher and conveyor equipment at the Greenhill Materials Plant was performed following EPA methods described by the Code of Federal Regulations, Title 40, Part 60, Appendix A. Table 4.1 below outlines the specific method performed on March 14-16, 2005.

TABLE 4.1
SUMMARY OF SAMPLING METHODS

Pollutant or Parameter	Sampling Method	Analysis Method
Opacity	EPA Method 9	Visual Observation

The sampling and analysis procedure used during these tests conforms in principle with the methods outlined in the Code of Federal Regulations (CFR), Title 40, Part 60, Appendix A, Method 9. Figure 4.1 depicts the sample points used for the opacity tests. A visual sample was taken at 15 second intervals for a period of 60 minutes at each emission point. All readings were then recorded on a field data sheet. Data records can be found in Appendix A and C of this report.

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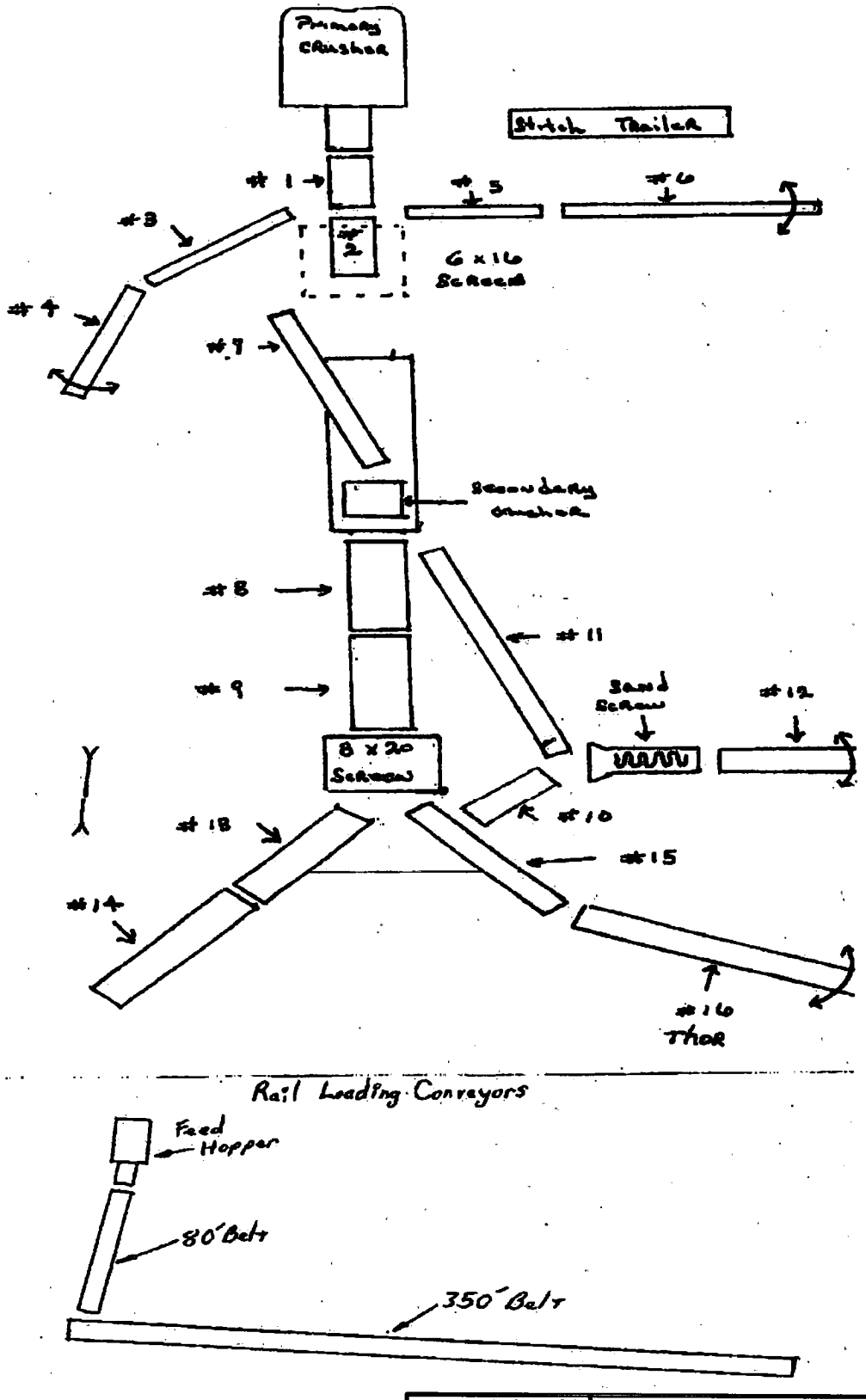
F:\SERVER\GREENHILL\SITE SETUP.PPT 03/24/05 DRAWING:05-008 TKG



AIR HYGIENE

Figure 4.1
GREENHILL MATERIALS PLANT

5634 S. 122nd East Ave, Suite F
Tulsa, Oklahoma 74146
www.airhygiene.com
(888) 461-8778

APPENDIX A

Results and Calculations

Company: Greenhill Materials
Equipment: Primary Crusher
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.71 %
Maximum Opacity: 5 %
8 Minute Average: 0.89 %
8 Minute Maximum: 1.67 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	1.25	30.00	0	0.21	45.00	5	1.46
0.25	0	N/A	15.25	0	1.25	30.25	0	0.21	45.25	0	1.48
0.50	0	N/A	15.50	0	1.25	30.50	0	0.21	45.50	0	1.46
0.75	0	N/A	15.75	0	1.25	30.75	0	0.21	45.75	0	1.46
1.00	0	N/A	16.00	5	1.46	31.00	0	0.21	46.00	0	1.46
1.25	0	N/A	18.25	0	1.46	31.25	0	0.21	46.25	0	1.46
1.50	0	N/A	16.50	0	1.25	31.50	0	0.21	46.50	0	1.46
1.75	0	N/A	18.75	0	1.04	31.75	0	0.21	46.75	0	1.25
2.00	0	N/A	17.00	0	0.83	32.00	0	0.21	47.00	0	1.25
2.25	0	N/A	17.25	0	0.63	32.25	0	0.21	47.25	0	1.25
2.50	0	N/A	17.50	0	0.42	32.50	0	0.21	47.50	0	1.25
2.75	0	N/A	17.75	0	0.21	32.75	0	0.21	47.75	0	1.25
3.00	0	N/A	18.00	0	0.21	33.00	0	0.21	48.00	0	1.25
3.25	0	N/A	18.25	0	0.21	33.25	0	0.21	48.25	0	1.25
3.50	0	N/A	18.50	0	0.21	33.50	0	0.21	48.50	0	1.25
3.75	0	N/A	18.75	0	0.21	33.75	0	0.00	48.75	0	1.25
4.00	5	N/A	19.00	0	0.21	34.00	0	0.00	49.00	5	1.46
4.25	0	N/A	19.25	0	0.21	34.25	0	0.00	49.25	5	1.46
4.50	0	N/A	19.50	0	0.21	34.50	0	0.00	49.50	0	1.25
4.75	0	N/A	19.75	0	0.21	34.75	0	0.00	49.75	0	1.25
5.00	0	N/A	20.00	0	0.21	35.00	0	0.00	50.00	0	1.25
5.25	0	N/A	20.25	0	0.21	35.25	5	0.21	50.25	5	1.25
5.50	0	N/A	20.50	0	0.21	35.50	5	0.42	50.50	0	1.04
5.75	0	0.21	20.75	0	0.20	35.75	0	0.42	50.75	0	0.83
8.00	0	0.21	21.00	0	0.19	36.00	0	0.42	51.00	0	0.63
6.25	0	0.21	21.25	5	0.37	36.25	5	0.63	51.25	0	0.63
6.50	0	0.21	21.50	5	0.54	36.50	0	0.63	51.50	0	0.63
6.75	5	0.42	21.75	0	0.52	36.75	0	0.63	51.75	0	0.83
7.00	0	0.42	22.00	0	0.50	37.00	0	0.63	52.00	0	0.63
7.25	0	0.42	22.25	0	0.48	37.25	0	0.63	52.25	0	0.63
7.50	0	0.42	22.50	0	0.47	37.50	0	0.83	52.50	0	0.63
7.75	0	0.42	22.75	0	0.45	37.75	5	0.83	52.75	0	0.83
8.00	0	0.42	23.00	0	0.43	38.00	0	0.83	53.00	0	0.63
8.25	0	0.42	23.25	0	0.41	38.25	0	0.83	53.25	5	0.83
8.50	0	0.42	23.50	0	0.38	38.50	0	0.83	53.50	5	1.04
8.75	5	0.63	23.75	0	0.37	38.75	0	0.83	53.75	0	1.04
9.00	0	0.63	24.00	0	0.35	39.00	0	0.83	54.00	0	1.04
9.25	0	0.63	24.25	0	0.33	39.25	0	0.83	54.25	0	1.04
9.50	0	0.63	24.50	0	0.32	39.50	0	0.83	54.50	0	1.04
9.75	0	0.63	24.75	0	0.31	39.75	0	0.83	54.75	0	1.04
10.00	0	0.42	25.00	0	0.29	40.00	0	0.83	55.00	0	0.83
10.25	0	0.42	25.25	0	0.28	40.25	0	0.83	55.25	0	0.83
10.50	5	0.63	25.50	0	0.27	40.50	0	0.83	55.50	5	0.83
10.75	5	0.83	25.75	0	0.26	40.75	5	1.04	55.75	0	0.83
11.00	5	1.04	26.00	0	0.25	41.00	0	1.04	56.00	0	0.83
11.25	5	1.25	28.25	0	0.25	41.25	0	0.83	56.25	0	0.63
11.50	5	1.46	26.50	0	0.24	41.50	0	0.63	56.50	0	0.63
11.75	5	1.67	28.75	0	0.23	41.75	0	0.63	56.75	0	0.63
12.00	0	1.67	27.00	0	0.22	42.00	0	0.63	57.00	0	0.63
12.25	0	1.67	27.25	0	0.22	42.25	0	0.42	57.25	0	0.63
12.50	0	1.67	27.50	0	0.21	42.50	0	0.42	57.50	0	0.63
12.75	0	1.46	27.75	5	0.27	42.75	0	0.42	57.75	0	0.63
13.00	0	1.46	28.00	0	0.27	43.00	0	0.42	58.00	0	0.63
13.25	0	1.46	28.25	0	0.26	43.25	5	0.63	58.25	5	0.83
13.50	0	1.46	28.50	0	0.25	43.50	5	0.83	58.50	5	1.04
13.75	0	1.46	28.75	0	0.25	43.75	0	0.63	58.75	5	1.25
14.00	0	1.46	29.00	0	0.24	44.00	0	0.63	59.00	5	1.48
14.25	0	1.46	29.25	0	0.24	44.25	5	0.83	59.25	0	1.25
14.50	0	1.46	29.50	0	0.23	44.50	5	1.04	59.50	0	1.04
14.75	0	1.25	29.75	0	0.22	44.75	5	1.25	59.75	0	1.04

Company: Greenhill Materials
Equipment: Transfer point between Primary Crusher and Conveyor #1
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #1 and 6x16 Screen
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	18.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	18.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
8.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
8.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
8.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	28.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	58.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #3 and Conveyor #4
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity:	0.00 %
Maximum Opacity:	0 %
6 Minute Average:	0.00 %
6 Minute Maximum:	0.00 %
Readings at 10 %:	0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	58.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	26.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	26.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	26.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Drop off point of Conveyor #4 to stockpile
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	18.25	0	0.00	31.25	0	0.00	48.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
8.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
8.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	38.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	58.50	0	0.00
11.75	0	0.00	28.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company:	Greenhill Materials
Equipment:	Transfer point between Conveyor #5 and Conveyor #6
Location:	Crusher Plant
Date:	March 16, 2005
Project #:	green-05-owasso.ok-opac#1

Run 1		
Average Opacity:	0.00 %	
Maximum Opacity:	0 %	
6 Minute Average:	0.00 %	
6 Minute Maximum:	0.00 %	
Readings at 10 %:	0 readings	

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	38.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Drop off point of Conveyor #6 to stockpile
Location: Crusher Plant
Date: March 16, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #7 and 2nd crusher
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	48.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
8.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between 2nd crusher and Conveyor #8
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 2.00 %
Maximum Opacity: 5 %
6 Minute Average: 1.89 %
6 Minute Maximum: 3.94 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	8 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	8 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	5	N/A	15.00	0	2.08	30.00	5	0.83	45.00	0	2.71
0.25	0	N/A	15.25	0	2.08	30.25	5	1.04	45.25	0	2.50
0.50	0	N/A	15.50	0	2.08	30.50	5	1.25	45.50	0	2.29
0.75	0	N/A	15.75	0	2.08	30.75	5	1.46	45.75	0	2.08
1.00	0	N/A	16.00	0	2.08	31.00	0	1.46	46.00	0	1.88
1.25	0	N/A	18.25	5	2.29	31.25	0	1.46	46.25	0	1.67
1.50	0	N/A	16.50	0	2.08	31.50	0	1.48	46.50	0	1.46
1.75	0	N/A	16.75	5	2.08	31.75	0	1.46	46.75	0	1.25
2.00	0	N/A	17.00	5	2.08	32.00	0	1.46	47.00	0	1.04
2.25	5	N/A	17.25	5	2.08	32.25	0	1.46	47.25	0	0.83
2.50	5	N/A	17.50	5	2.08	32.50	0	1.48	47.50	0	0.63
2.75	5	N/A	17.75	5	2.08	32.75	0	1.46	47.75	5	0.63
3.00	5	N/A	18.00	5	2.08	33.00	0	1.46	48.00	5	0.63
3.25	5	N/A	18.25	5	2.08	33.25	0	1.46	48.25	5	0.63
3.50	5	N/A	18.50	5	2.08	33.50	0	1.46	48.50	5	0.83
3.75	5	N/A	18.75	5	2.08	33.75	0	1.46	48.75	5	1.04
4.00	5	N/A	19.00	5	2.29	34.00	0	1.46	49.00	5	1.25
4.25	5	N/A	19.25	5	2.50	34.25	0	1.48	49.25	5	1.46
4.50	5	N/A	19.50	5	2.71	34.50	0	1.48	49.50	5	1.67
4.75	5	N/A	19.75	5	2.92	34.75	0	1.46	49.75	5	1.88
5.00	5	N/A	20.00	5	3.13	35.00	0	1.46	50.00	5	2.08
5.25	5	N/A	20.25	5	3.33	35.25	0	1.25	50.25	5	2.29
5.50	5	N/A	20.50	5	3.54	35.50	0	1.04	50.50	0	2.29
5.75	5	3.33	20.75	5	3.60	35.75	0	0.83	50.75	0	2.29
6.00	5	3.33	21.00	5	3.65	36.00	0	0.63	51.00	0	2.29
6.25	0	3.33	21.25	5	3.70	36.25	0	0.42	51.25	0	2.29
6.50	0	3.33	21.50	5	3.75	36.50	0	0.21	51.50	0	2.29
6.75	0	3.33	21.75	5	3.79	36.75	0	0.00	51.75	0	2.29
7.00	0	3.33	22.00	5	3.83	37.00	0	0.00	52.00	0	2.29
7.25	0	3.33	22.25	5	3.87	37.25	0	0.00	52.25	0	2.29
7.50	0	3.33	22.50	5	3.91	37.50	0	0.00	52.50	0	2.29
7.75	0	3.33	22.75	5	3.94	37.75	0	0.00	52.75	0	2.29
8.00	0	3.33	23.00	5	3.86	38.00	0	0.00	53.00	0	2.29
8.25	0	3.13	23.25	5	3.78	38.25	0	0.00	53.25	0	2.29
8.50	0	2.92	23.50	5	3.72	38.50	0	0.00	53.50	0	2.29
8.75	0	2.71	23.75	5	3.66	38.75	0	0.00	53.75	0	2.08
9.00	0	2.50	24.00	5	3.60	39.00	0	0.00	54.00	0	1.88
9.25	0	2.29	24.25	0	3.44	39.25	5	0.21	54.25	0	1.67
9.50	0	2.08	24.50	0	3.30	39.50	5	0.42	54.50	0	1.46
9.75	0	1.88	24.75	0	3.16	39.75	5	0.63	54.75	0	1.25
10.00	0	1.67	25.00	0	3.04	40.00	5	0.83	55.00	0	1.04
10.25	0	1.46	25.25	0	2.92	40.25	5	1.04	55.25	0	0.83
10.50	5	1.46	25.50	0	2.82	40.50	5	1.25	55.50	0	0.63
10.75	5	1.46	25.75	0	2.72	40.75	5	1.46	55.75	0	0.42
11.00	5	1.46	26.00	0	2.63	41.00	5	1.67	56.00	0	0.21
11.25	5	1.46	26.25	0	2.54	41.25	5	1.88	56.25	0	0.00
11.50	5	1.46	26.50	0	2.46	41.50	5	2.08	56.50	0	0.00
11.75	5	1.46	26.75	0	2.38	41.75	5	2.29	56.75	0	0.00
12.00	5	1.46	27.00	0	2.31	42.00	5	2.50	57.00	0	0.00
12.25	5	1.67	27.25	0	2.25	42.25	5	2.71	57.25	0	0.00
12.50	5	1.88	27.50	0	2.18	42.50	0	2.71	57.50	0	0.00
12.75	5	2.08	27.75	0	2.12	42.75	0	2.71	57.75	0	0.00
13.00	0	2.08	28.00	0	2.07	43.00	0	2.71	58.00	5	0.21
13.25	0	2.08	28.25	0	2.01	43.25	0	2.71	58.25	5	0.42
13.50	0	2.08	28.50	0	1.96	43.50	0	2.71	58.50	5	0.63
13.75	0	2.08	28.75	0	1.91	43.75	0	2.71	58.75	0	0.83
14.00	0	2.08	29.00	0	1.87	44.00	0	2.71	59.00	5	0.83
14.25	0	2.08	29.25	5	1.88	44.25	0	2.71	59.25	5	1.04
14.50	0	2.08	29.50	5	1.90	44.50	0	2.71	59.50	5	1.25
14.75	0	2.08	29.75	5	1.91	44.75	0	2.71	59.75	5	1.48

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #8 and Conveyor #9
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
8.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	28.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	28.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	28.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #9 and 8x20screen
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	58.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between 8x20screen and Conveyor#13
Location: Crusher Plant
Date: March 15, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	38.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	36.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	58.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	28.50	0	0.00	41.50	0	0.00	58.50	0	0.00
11.75	0	0.00	28.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #10 and Conveyor #15
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #10 and sandscrew
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company:	Greenhill Materials
Equipment:	Transfer point between sandscrew and Conveyor #12
Location:	Crusher Plant
Date:	March 14, 2005
Project #:	green-05-owasso.ok-opac#1

Run 1		
Average Opacity:	0.00 %	
Maximum Opacity:	0 %	
6 Minute Average:	0.00 %	
6 Minute Maximum:	0.00 %	
Readings at 10 %:	0 readings	

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	18.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	18.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	58.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Drop off point of Conveyor #12 to stockpile
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #13 and Conveyor #14
Location: Crusher Plant
Date: March 15, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	18.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	18.25	0	0.00	31.25	0	0.00	48.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	38.00	0	0.00	51.00	0	0.00
8.25	0	0.00	21.25	0	0.00	38.25	0	0.00	51.25	0	0.00
8.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
8.75	0	0.00	21.75	0	0.00	38.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	28.00	0	0.00	41.00	0	0.00	58.00	0	0.00
11.25	0	0.00	28.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Drop off point of Conveyor #14 to stockpile
Location: Crusher Plant
Date: March 15, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	58.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	58.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Conveyor #15 and Conveyor #16
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Drop off point of Conveyor #16 to stockpile
Location: Crusher Plant
Date: March 14, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	16.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	16.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	16.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
6.00	0	0.00	23.00	0	0.00	36.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	36.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	36.50	0	0.00	53.50	0	0.00
6.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	28.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	26.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between Feed Hopper and 80' belt
Location: Crusher Plant
Date: March 16, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	48.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
6.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
6.50	0	0.00	23.50	0	0.00	36.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	26.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	26.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	56.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Transfer point between 80' belt and 350' belt
Location: Crusher Plant
Date: March 16, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	18.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
6.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	28.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

Company: Greenhill Materials
Equipment: Drop off point of 350' belt to rail cars
Location: Crusher Plant
Date: March 16, 2005
Project #: green-05-owasso.ok-opac#1

Run 1

Average Opacity: 0.00 %
Maximum Opacity: 0 %
6 Minute Average: 0.00 %
6 Minute Maximum: 0.00 %
Readings at 10 %: 0 readings

TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.	TIME (min)	OPACITY (%)	6 MIN AVG.
0.00	0	N/A	15.00	0	0.00	30.00	0	0.00	45.00	0	0.00
0.25	0	N/A	15.25	0	0.00	30.25	0	0.00	45.25	0	0.00
0.50	0	N/A	15.50	0	0.00	30.50	0	0.00	45.50	0	0.00
0.75	0	N/A	15.75	0	0.00	30.75	0	0.00	45.75	0	0.00
1.00	0	N/A	16.00	0	0.00	31.00	0	0.00	46.00	0	0.00
1.25	0	N/A	16.25	0	0.00	31.25	0	0.00	46.25	0	0.00
1.50	0	N/A	16.50	0	0.00	31.50	0	0.00	46.50	0	0.00
1.75	0	N/A	16.75	0	0.00	31.75	0	0.00	46.75	0	0.00
2.00	0	N/A	17.00	0	0.00	32.00	0	0.00	47.00	0	0.00
2.25	0	N/A	17.25	0	0.00	32.25	0	0.00	47.25	0	0.00
2.50	0	N/A	17.50	0	0.00	32.50	0	0.00	47.50	0	0.00
2.75	0	N/A	17.75	0	0.00	32.75	0	0.00	47.75	0	0.00
3.00	0	N/A	18.00	0	0.00	33.00	0	0.00	48.00	0	0.00
3.25	0	N/A	18.25	0	0.00	33.25	0	0.00	48.25	0	0.00
3.50	0	N/A	18.50	0	0.00	33.50	0	0.00	48.50	0	0.00
3.75	0	N/A	18.75	0	0.00	33.75	0	0.00	48.75	0	0.00
4.00	0	N/A	19.00	0	0.00	34.00	0	0.00	49.00	0	0.00
4.25	0	N/A	19.25	0	0.00	34.25	0	0.00	49.25	0	0.00
4.50	0	N/A	19.50	0	0.00	34.50	0	0.00	49.50	0	0.00
4.75	0	N/A	19.75	0	0.00	34.75	0	0.00	49.75	0	0.00
5.00	0	N/A	20.00	0	0.00	35.00	0	0.00	50.00	0	0.00
5.25	0	N/A	20.25	0	0.00	35.25	0	0.00	50.25	0	0.00
5.50	0	N/A	20.50	0	0.00	35.50	0	0.00	50.50	0	0.00
5.75	0	0.00	20.75	0	0.00	35.75	0	0.00	50.75	0	0.00
6.00	0	0.00	21.00	0	0.00	36.00	0	0.00	51.00	0	0.00
6.25	0	0.00	21.25	0	0.00	36.25	0	0.00	51.25	0	0.00
8.50	0	0.00	21.50	0	0.00	36.50	0	0.00	51.50	0	0.00
6.75	0	0.00	21.75	0	0.00	36.75	0	0.00	51.75	0	0.00
7.00	0	0.00	22.00	0	0.00	37.00	0	0.00	52.00	0	0.00
7.25	0	0.00	22.25	0	0.00	37.25	0	0.00	52.25	0	0.00
7.50	0	0.00	22.50	0	0.00	37.50	0	0.00	52.50	0	0.00
7.75	0	0.00	22.75	0	0.00	37.75	0	0.00	52.75	0	0.00
8.00	0	0.00	23.00	0	0.00	38.00	0	0.00	53.00	0	0.00
8.25	0	0.00	23.25	0	0.00	38.25	0	0.00	53.25	0	0.00
8.50	0	0.00	23.50	0	0.00	38.50	0	0.00	53.50	0	0.00
8.75	0	0.00	23.75	0	0.00	38.75	0	0.00	53.75	0	0.00
9.00	0	0.00	24.00	0	0.00	39.00	0	0.00	54.00	0	0.00
9.25	0	0.00	24.25	0	0.00	39.25	0	0.00	54.25	0	0.00
9.50	0	0.00	24.50	0	0.00	39.50	0	0.00	54.50	0	0.00
9.75	0	0.00	24.75	0	0.00	39.75	0	0.00	54.75	0	0.00
10.00	0	0.00	25.00	0	0.00	40.00	0	0.00	55.00	0	0.00
10.25	0	0.00	25.25	0	0.00	40.25	0	0.00	55.25	0	0.00
10.50	0	0.00	25.50	0	0.00	40.50	0	0.00	55.50	0	0.00
10.75	0	0.00	25.75	0	0.00	40.75	0	0.00	55.75	0	0.00
11.00	0	0.00	26.00	0	0.00	41.00	0	0.00	56.00	0	0.00
11.25	0	0.00	26.25	0	0.00	41.25	0	0.00	56.25	0	0.00
11.50	0	0.00	26.50	0	0.00	41.50	0	0.00	56.50	0	0.00
11.75	0	0.00	26.75	0	0.00	41.75	0	0.00	56.75	0	0.00
12.00	0	0.00	27.00	0	0.00	42.00	0	0.00	57.00	0	0.00
12.25	0	0.00	27.25	0	0.00	42.25	0	0.00	57.25	0	0.00
12.50	0	0.00	27.50	0	0.00	42.50	0	0.00	57.50	0	0.00
12.75	0	0.00	27.75	0	0.00	42.75	0	0.00	57.75	0	0.00
13.00	0	0.00	28.00	0	0.00	43.00	0	0.00	58.00	0	0.00
13.25	0	0.00	28.25	0	0.00	43.25	0	0.00	58.25	0	0.00
13.50	0	0.00	28.50	0	0.00	43.50	0	0.00	58.50	0	0.00
13.75	0	0.00	28.75	0	0.00	43.75	0	0.00	58.75	0	0.00
14.00	0	0.00	29.00	0	0.00	44.00	0	0.00	59.00	0	0.00
14.25	0	0.00	29.25	0	0.00	44.25	0	0.00	59.25	0	0.00
14.50	0	0.00	29.50	0	0.00	44.50	0	0.00	59.50	0	0.00
14.75	0	0.00	29.75	0	0.00	44.75	0	0.00	59.75	0	0.00

APPENDIX B

Quality Assurance Activities

QUALITY ASSURANCE PROGRAM SUMMARY

Air Hygiene ensures the quality and validity of its emission measurement and reporting procedures through a rigorous quality assurance (QA) program. The program is developed and administered by an internal QA team and encompasses five major areas:

1. QA reviews of reports, laboratory work, and field-testing
2. Equipment calibration and maintenance
3. Chain-of-custody
4. Training
5. Knowledge of current test methods

Each of these areas is discussed individually below.

QA Reviews

Air Hygiene's review procedure includes review of each source test report, along with laboratory and fieldwork, by the QA Team. The most important review is the one that takes place before a test program begins. The QA Team works closely with technical division personnel to prepare and review test protocols. Test protocol review includes selection of appropriate test procedures, evaluation of interferences or other restrictions that might preclude use of standard test procedures, and evaluation and/or development of alternate procedures.

Equipment Calibration and Maintenance

The equipment used to conduct the emission measurements is maintained according to the manufacturer's instructions to ensure proper operation. In addition to the maintenance program, calibrations are carried out on each measurement device according to the schedule outlined by the Environmental Protection Agency. Quality control checks are also conducted in the field for each test program.

Chain-of-Custody

Air Hygiene maintains full chain-of-custody documentation on all samples and data sheets. In addition to normal documentation of changes between field sample custodians, laboratory personnel, and field test personnel, Air Hygiene documents every individual who handles any test component in the field (e.g., probe wash, impinger loading and recovery, filter loading and recovery, etc.). Samples are stored in a locked area to which only Air Hygiene personnel have access. Field data sheets are secured at Air Hygiene's offices upon return from the field.

Training

Personnel's training is essential to ensure quality testing. Air Hygiene has formal and informal training programs, which include:

1. Attendance at EPA-sponsored training courses
2. Enrollment in EPA correspondence courses
3 A requirement for all technicians to read and understand Air Hygiene's QA manual
4. In-house training and QA meetings on a regular basis
5. Maintenance of training records

Knowledge of Current Test Methods

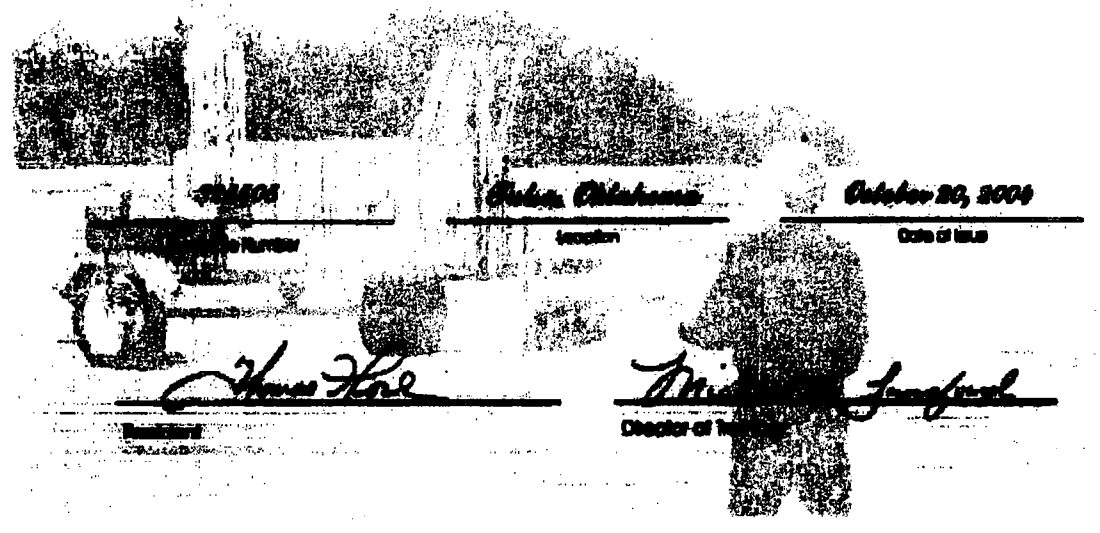
With the constant updating of standard test methods and the wide variety of emerging test procedures, it is essential that any qualified source tester keep abreast of new developments. Air Hygiene subscribes to services, which provide updates on EPA reference methods, rules, and regulations. Additionally, source test personnel regularly attend and present papers at testing and emission-related seminars and conferences. Air Hygiene personnel maintain membership in the Air and Waste Management Association and the American Industrial Hygiene Association.

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Pandu Sattvika

met the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.



APPENDIX C

Field Data Records

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa State: OK Zip:

Process: PRIMARY CRUSHER Unit #: Operating Mode:
Control Equipment: Operating Mode:

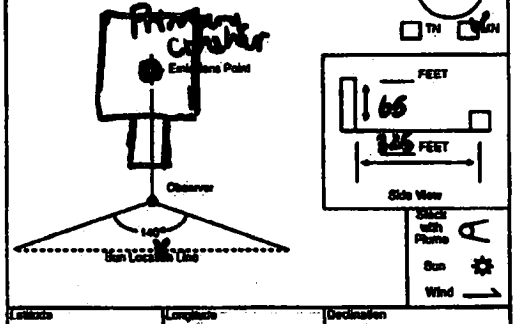
Describe Emissions Point: Above the primary crusher next to the loading point
Height of Emiss. Pt. Start: 65' End: 65' Height of Emiss. Pt. Rel. to Observer Start: 66' End: 66'
Distance to Emiss. Pt. Start: 326' End: 325' Direction to Emiss. Pt. (Degrees) Start: 45° End: 45°

Vertical Angle to Obs. Pt. Start: 12° End: 12° Direction to Obs. Pt. (Degrees) Start: 45° End: 45°
Distance and Direction to Observation Point from Emission Point Start: 060 End: 060

Describe Emissions Start: light grey plume End: light grey plume
Emission Color Start: light grey End: light grey Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: sky End: sky
Background Color Start: blue End: blue Sky Conditions Start: scattered End: scattered
Wind Speed Start: N/R End: N/R Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 58°F End: 60°F Wet Bulb Temp. RH Percent

Source Layout Sketch — Draw North Arrow: TN MN



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-OWASSO.pk spec#1 Page 1 of 2
Continuation Form Number

Observation Date: 9/14/05 Time Zone: Central Start Time: 9:40 End Time: 10:10

Min.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	5	0	0	0	
5	0	0	0	0	
6	0	0	5	0	
7	0	0	0	0	
8	0	0	5	0	
9	0	0	0	0	
10	0	0	5	5	
11	5	5	5	5	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	5	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	5	5	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	5	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: Pandu Sastrika Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: PRIMARY CRUSHER | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emissions Point: Above the primary crusher next to the loading point

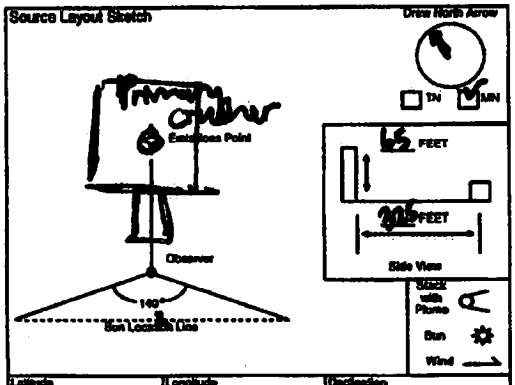
Height of Emiss. Pt. Start 65' End 65' | Height of Emiss. Pt. Rel. to Observer Start 65' End 65'
Distance to Emiss. Pt. Start 325' End 325' | Direction to Emiss. Pt. (Degrees) Start 45° End 45°

Vertical Angle to Obs. Pt. Start 12° End 12° | Direction to Obs. Pt. (Degrees) Start 45° End 45°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start light grey plume End light grey plume
Emission Color Start light grey End light grey | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start Sky End sky
Background Color Start blue End blue | Sky Conditions Start scattered scattered
Wind Speed Start 0 mph End 0 mph | Wind Direction Start N/A End N/A
Ambient Temp. Start 58°F End 59°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok | Page #1 of 2 2
Continued on Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 10:10 | End Time: 10:40

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	5	5	5	
6	0	5	0	0	
7	0	0	5	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	5	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	5	5	0	
14	0	5	5	5	
15	5	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	5	5	0	0	
20	0	5	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	5	5	0	
24	0	0	0	0	
25	0	0	5	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	5	5	5	
29	5	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satwika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

PC: Primary Crusher

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: | Unit #: | Operating Mode: conveyor
Control Equipment: | Operating Mode:

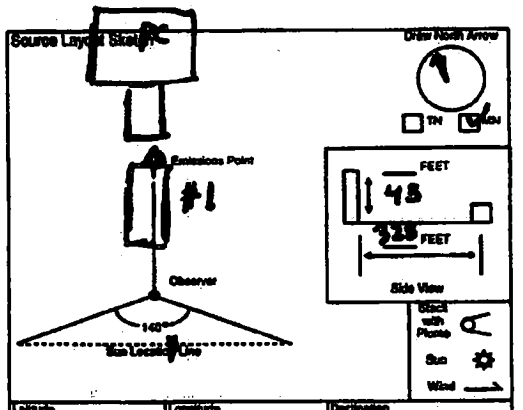
Describe Emissions Point: transfer point between Primary crusher and conveyor #1
Height of Emiss. Pt. Start 45 End 45' | Height of Emiss. Pt. Rel. to Observer Start 45' End 45'
Distance to Emiss. Pt. Start 325' End 325' | Direction to Emiss. Pt. (Degrees) Start 45° End 45°

Vertical Angle to Obs. Pt. Start 10 End 10° | Direction to Obs. Pt. (Degrees) Start 45° End 45°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start sky End sky
Background Color Start blue End blue | Sky Conditions Start scattered End scattered
Wind Speed Start N/A End N/A | Wind Direction Start N/A End N/A
Ambient Temp. Start 58°F End 58°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok opac#1 | Page 12 of
Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 9:40 | End Time: 10:40

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satterka
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: | Unit #: | Operating Mode: conveyor 1
Control Equipment: | Operating Mode:

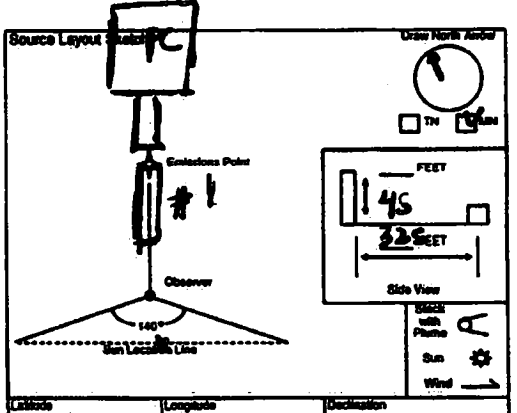
Describe Emissions Point: transfer point between primary crusher and conveyor 1

	Start	End
Height of Emiss. Pt.	45'	45'
Height of Emiss. Pt. Rel. to Observer	45'	45'
Distance to Emiss. Pt.	325'	325'
Direction to Emiss. Pt. (Degrees)	45°	45°
Vertical Angle to Obs. Pt.	10	10°
Direction to Obs. Pt. (Degrees)	45°	45°
Distance and Direction to Observation Point from Emission Point	0<0	0<0

Describe Emissions: Start N/V End N/V
Emission Color: Start N/V End N/V
Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start sky End sky
Background Color: Start blue End blue
Sky Conditions: Start scattered End scattered
Wind Speed: Start N/A End N/A
Wind Direction: Start N/A End N/A
Ambient Temp.: Start 58°F End 59°F
Wet Bulb Temp.:
RH Percent:

Source Layout Sketch



Latitude	Longitude	Declination

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 1 of 22
Continued on Form Number:

Observation Date	Time Zone	Start Time	End Time
9/14/05	Central	10:10	10:40

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
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10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: Pandu Satavika | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th S North

City: Tulsa | State: OK | Zip:

Process: SCREEN | Unit #: | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emissions Point: Above the drop off point of conveyor 1 to the screener

Height of Emiss. Pt.: Start 40' End 40' | Height of Emiss. Pt. Rel. to Observer: Start 40' End 40'

Distance to Emiss. Pt.: Start 310' End 310' | Direction to Emiss. Pt. (Degrees): Start 40° End 40°

Vertical Angle to Obs. Pt.: Start 12° End 12° | Direction to Obs. Pt. (Degrees): Start 40° End 40°

Distance and Direction to Observation Point from Emission Point: Start 0<0 End 0<0

Describe Emissions: Start N/V End N/V

Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

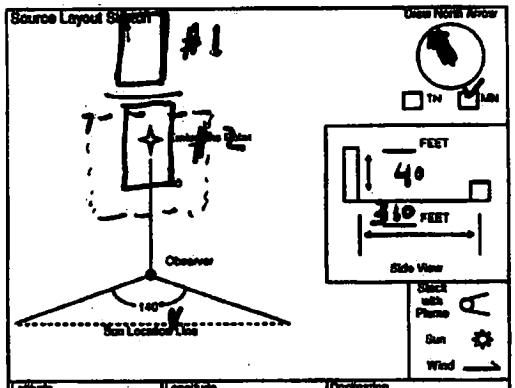
Describe Plume Background: Start sky End sky

Background Color: Start blue End blue | Sky Conditions: Start scattered End scattered

Wind Speed: Start 0mph End 0mph | Wind Direction: Start N/A End N/A

Ambient Temp.: Start 58°F End 58°F | Wet Bulb Temp.: | RH Percent:

Source Layout Sketch



Latitude: | Longitude: | Declination:

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2

Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 9:40 | End Time: 10:10

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
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13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika

Observer's Signature: Pandu Satavika | Date: 9/14/05

Organization: Air Hygiene, Inc

Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: SCREEN | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

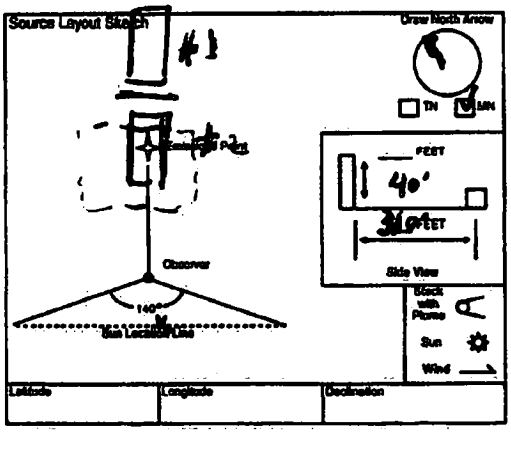
Describe Emissions Point: from the discharge point of conveyor 1 to the screener
Height of Emiss. Pt. Start 40' End 40' | Height of Emiss. Pt. Rel. to Observer Start 40' End 40'
Distance to Emiss. Pt. Start 310' End 310' | Direction to Emiss. Pt. (Degrees) Start 40° End 40°

Vertical Angle to Obs. Pt. Start 12° End 12° | Direction to Obs. Pt. (Degrees) Start 40° End 40°
Distance and Direction to Observation Point from Emission Point Start 060 End 060

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start Sky End Sky
Background Color Start N/A End N/A | Sky Conditions Start scattered End Scattered
Wind Speed Start 0 End 0 | Wind Direction Start N/A End N/A
Ambient Temp. Start 52F End 59F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.pk opac#1 | Page 2 of 2
Continuation Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 10:25 | End Time: 10:40

Min \ Sec	0	15	30	45	Comments
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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9	0	0	0	0	
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14	0	0	0	0	
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17	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
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25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: Randy Satterlee | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa State: OK Zip:

Process: conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

Describe Emissions Point: water point conveyor 3# → #4

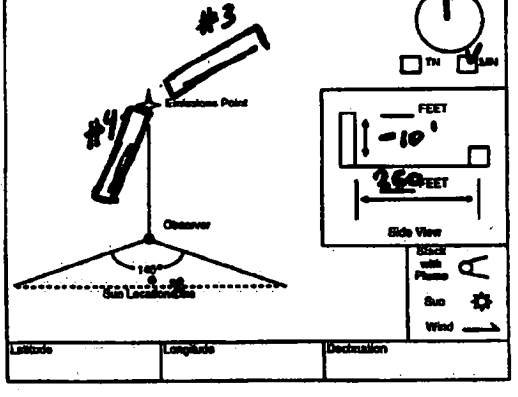
Height of Emiss. Pt. Start ~10' End ~10' | Height of Emiss. Pt. Rel. to Observer, Start ~10' End ~10'
Distance to Emiss. Pt. Start 350' End 350' | Direction to Emiss. Pt. (Degrees) Start 0° End 0°

Vertical Angle to Obs. Pt. Start 0° End 0° | Direction to Obs. Pt. (Degrees) Start 0° End 0°
Distance and Direction to Observation Point from Emission Point Start 0&0 End 0&0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start gravel End gravel
Background Color Start grey End grey | Sky Conditions Start Overcast End Overcast
Wind Speed Start 0 mph End 0 mph | Wind Direction Start N/A End N/A
Ambient Temp. Start 58°F End 56°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.pk opacity #1 1,3 Page of
Continuation Form Number

Observation Date: 9/14/05 Time Zone: Central Start Time: 10:50 End Time: 11:20

Min.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
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11	0	0	0	0	
12	0	0	0	0	
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24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sattvika
Observer's Signature: Pandu Sattvika Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th St North

City: Tulsa | State: OK | Zip:

Process: | Unit #: Conveyor | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emissions Point: bearing point conveyor 3# → #4

Height of Emiss. Pt. Start -10' End -10' | Height of Emiss. Pt. Rel. to Observer Start -10' End -10'

Distance to Emiss. Pt. Start 350' End 350' | Direction to Emiss. Pt. (Degrees) Start 0° End 0°

Vertical Angle to Obs. Pt. Start 0° End 0° | Direction to Obs. Pt. (Degrees) Start 0° End 0°

Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V

Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

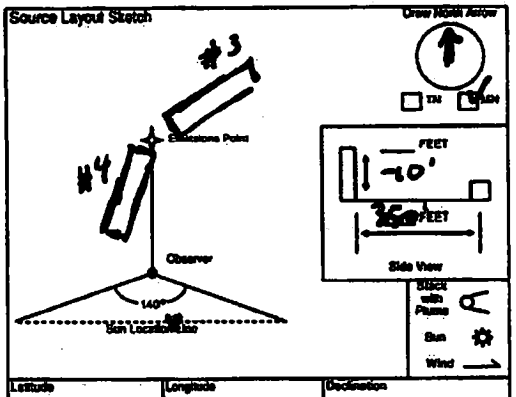
Describe Plume Background Start quarry End quarry

Background Color Start grey End grey | Sky Conditions Start scattered End scattered

Wind Speed Start 0 End 0 | Wind Direction Start N/A End N/A

Ambient Temp. Start 56°F End 57°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2

Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 10:20 | End Time: 11:50

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
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23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika

Observer's Signature: Pandu Satavika | Date: 9/14/05

Organization: Air Hygiene, Inc

Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa State: OK Zip:

Process: conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

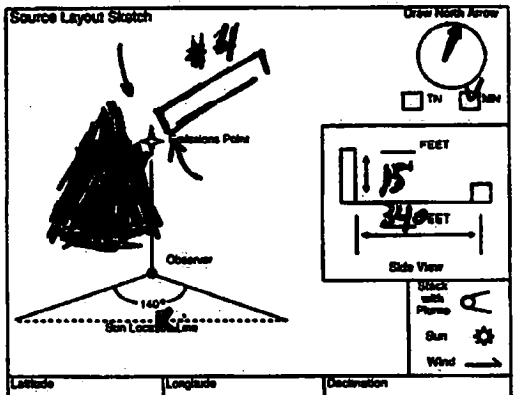
Describe Emissions Point: drop off point at the end of conveyor #4
Height of Emiss. Pt. Start: 15' End: 15'
Height of Emiss. Pt. Rel. to Observer Start: 15' End: 15'
Distance to Emiss. Pt. Start: 340' End: 340'
Direction to Emiss. Pt. (Degrees) Start: 350° End: 350°

Vertical Angle to Obs. Pt. Start: 3° End: 3°
Direction to Obs. Pt. (Degrees) Start: 250° End: 250°
Distance and Direction to Observation Point from Emission Point Start: 0'0 End: 0'0

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V
Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: trees End: trees
Background Color Start: green End: dark green
Sky Conditions Start: scattered End: scattered
Wind Speed Start: 0 End: 0
Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 55°F End: 56°F
Wet Bulb Temp. RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-OS-OWASSO.ok opac#1 Page 1 of 2
Continuation Form Number

Observation Date: 9/14/05 Time Zone: Central Start Time: 10:20 End Time: 11:20

Sec. / Min.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
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5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
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11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Sartwika
Observer's Signature: [signature] Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th St North

City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emissions Point: vapor point at the end of conveyor #4

Height of Emiss. Pt. Start 15' End 15' | Height of Emiss. Pt. Rel. to Observer Start 15' End 15'

Distance to Emiss. Pt. Start 340' End 340' | Direction to Emiss. Pt. (Degrees) Start 350° End 350°

Vertical Angle to Obs. Pt. Start 3° End 3° | Direction to Obs. Pt. (Degrees) Start 350° End 350°

Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V

Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

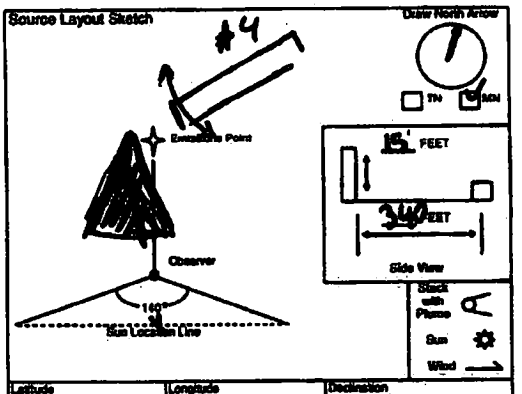
Describe Plume Background Start trees End trees

Background Color Start dark green End dark green | Sky Conditions Start scattered End scattered

Wind Speed Start 0 End 0 | Wind Direction Start N/A End N/A

Ambient Temp. Start 56°F End 57°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2

Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 11:20 | End Time: 11:50

Min. \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
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25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satsuka

Observer's Signature: [signature] | Date: 9/14/05

Organization: Air Hygiene, Inc

Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): **Method 9** 203A 203B Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa State: OK Zip:

Process: 2nd Crusher Unit # 1 Operating Mode:
Cont. Equip. Operating Mode:

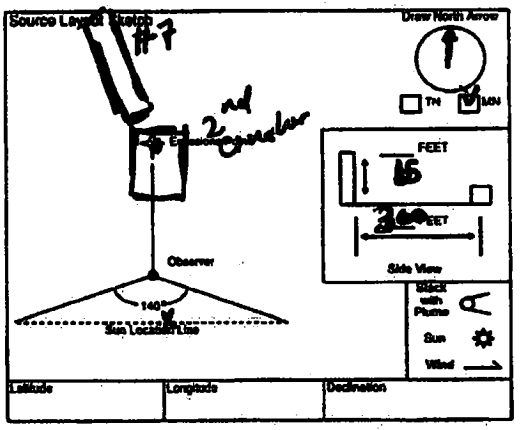
Describe Emissions Point: directly above the secondary crusher from conveyor #7
Height of Emiss. Pt. Start 15' End 15' Height of Emiss. Pt. Rel. to Observer Start 0' End 0'
Distance to Emiss. Pt. Start 300 End 300 Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start 0 End 0 Direction to Obs. Pt. (Degrees) Start 0° End 0°
Distance and Direction to Observation Point from Emission Point Start 060 End 060

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V Water Droplet Plume Start N/V End N/V

Describe Plume Background Start brown End brown
Background Color Start dark green End dark green Sky Conditions Start Scattered End Scattered
Wind Speed Start 0 End 0 Wind Direction Start N/A End N/A
Ambient Temp. Start 55°F End 56°F Wet Bulb Temp. RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opacity #1 Page 1 of 2
Continuation Form Number

Observation Date: 9/14/05 Time Zone: Central Start Time: 10:50 End Time: 11:20

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
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16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrawa
Observer's Signature: Pandu Sastrawa Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th St North

City: Tulsa | State: OK | Zip:

Process: 2nd crusher | Unit #: | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emissions Point: directly above the secondary crusher from conveyor #7

Height of Emiss. Pt. Start 15' End 15' | Height of Emiss. Pt. Rel. to Observer Start 0° End 0

Distance to Emiss. Pt. Start 300 End 300 | Direction to Emiss. Pt. (Degrees) Start End

Vertical Angle to Obs. Pt. Start 0° End 0° | Direction to Obs. Pt. (Degrees) Start 0° End 0°

Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V

Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

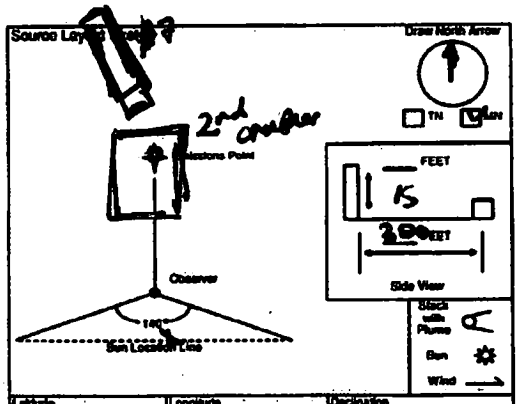
Describe Plume Background Start trees End trees

Background Color Start dark green End dark green | Sky Conditions Start scattered End scattered

Wind Speed Start 0 End 0 | Wind Direction Start N/A End N/A

Ambient Temp. Start 56°F End 67°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch #7



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2

Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 11:30 | End Time: 11:30

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
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12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
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17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satevika

Observer's Signature: Pandu Satevika | Date: 9/14/05

Organization: Air Hygiene, Inc

Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

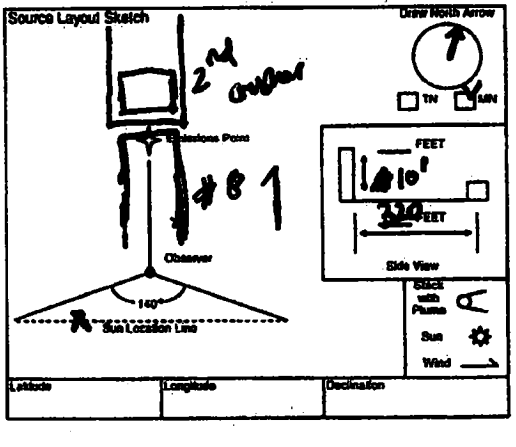
Describe Emissions Point: Secondary crusher to conveyor #8 transfer point
Height of Emiss. Pt. Start: 10' End: 10' | Height of Emiss. Pt. Rel. to Observer Start: -10' End: -10'
Distance to Emiss. Pt. Start: 320' End: 320' | Direction to Emiss. Pt. (Degrees) Start: 340° End: 340°

Vertical Angle to Obs. Pt. Start: -3° End: -3° | Direction to Obs. Pt. (Degrees) Start: 340° End: 340°
Distance and Direction to Observation Point from Emission Point Start: 040 End: 040

Describe Emissions: Start: Water plume End: Light plume
Emission Color: Start: white End: white | Water Droplet Plume: Start: N/V End:

Describe Plume Background: Start: cherry End: cherry
Background Color: Start: grey End: grey | Sky Conditions: Start: scattered End: scattered
Wind Speed: Start: Gentle End: Gentle | Wind Direction: Start: N End: N
Ambient Temp: Start: 59°F End: 59°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continuation Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 13:20 | End Time: 13:50

Min \ Sec	0	15	30	45	Comments
1	5	0	0	0	
2	0	5	5	5	
3	5	5	5	5	
4	5	5	5	5	
5	5	5	5	5	
6	5	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	5	5	
11	5	5	5	5	
12	5	5	5	5	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	5	0	5	
17	5	5	5	5	
18	5	5	5	5	
19	5	5	5	5	
20	5	5	5	5	
21	5	5	5	5	
22	5	5	5	5	
23	5	5	5	5	
24	5	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	5	5	5	
30	5	5	5	5	

Observer's Name (Print): Pandu Satrika
Observer's Signature: Pandu Satrika | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th N North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

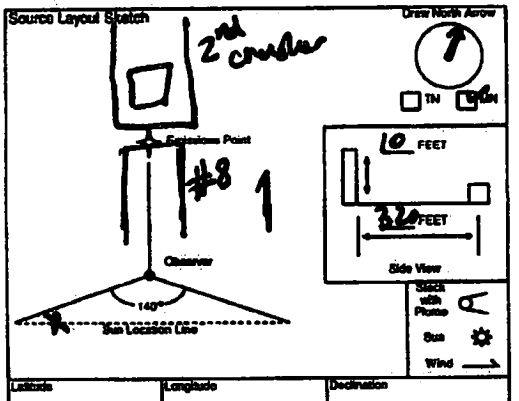
Describe Emissions Point: secondary crusher to conveyor #8 unloading point
Height of Emiss. Pt.: Start 10' End 10' | Height of Emiss. Pt. Rel. to Observer: Start -10' End -10'
Distance to Emiss. Pt.: Start 320' End 320' | Direction to Emiss. Pt. (Degrees): Start 340° End 340°

Vertical Angle to Obs. Pt.: Start -3° End -3° | Direction to Obs. Pt. (Degrees): Start 340° End 340°
Distance and Direction to Observation Point from Emission Point: Start 060 End 060

Describe Emissions: Start light plume End light plume
Emission Color: Start white End white | Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start quarry End quarry
Background Color: Start gray End gray | Sky Conditions: Start Scattered End Scattered
Wind Speed: Start 5mph End 5mph | Wind Direction: Start N End N
Ambient Temp: Start 69°F End 69°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.pk opacity #1 | Page 2 of 3
Continuation Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 13:50 | End Time: 14:20

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	5	5	5	
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18	5	5	5	5	
19	5	5	5	5	
20	5	5	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	5	
28	5	5	5	0	
29	5	5	0	0	
30	0	5	5	5	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: Pandu Sastrika | Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

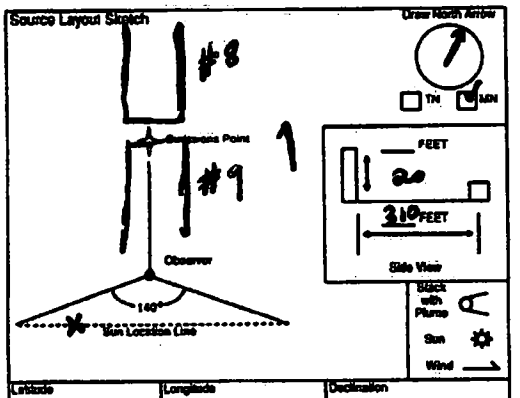
Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emissions Point: conveyor #8 ⟺ conveyor 9 transfer point

	Start	End
Height of Emiss. Pt.	25'	25'
Height of Emiss. Pt. Rel. to Observer	20'	20'
Distance to Emiss. Pt.	310'	310'
Direction to Emiss. Pt. (Degrees)	335°	335°
Vertical Angle to Obs. Pt.	3°	3°
Direction to Obs. Pt. (Degrees)	335°	335°
Distance and Direction to Observation Point from Emission Point	0<0	0<0
Describe Emissions	N/V	N/V
Emission Color	N/V	N/V
Water Droplet Plume	N/V	N/V
Describe Plume Background	trees	trees
Background Color	dark green	dark green
Sky Conditions	scattered	scattered
Wind Speed	5mph	5mph
Wind Direction	N	N
Ambient Temp.	59°F	59°F
Wet Bulb Temp.		
RH Percent		

Source Layout Sketch



Latitude	Longitude	Declination

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:

Observation Date	Time Zone	Start Time	End Time
9/14/05	Central	13:20	13:50

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
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14	0	0	0	0	
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24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

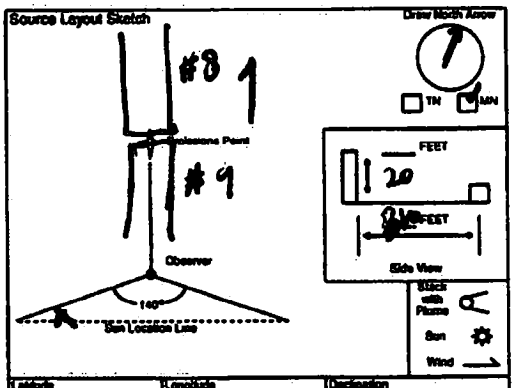
Describe Emissions Point: Conveyor #8 ↔ conveyor #9 transfer point
Height of Emiss. Pt. Start 25' End 25' | Height of Emiss. Pt. Rel. to Observer Start 70' End 70'
Distance to Emiss. Pt. Start 310' End 310' | Direction to Emiss. Pt. (Degrees) Start 335° End 335°

Vertical Angle to Obs. Pt. Start 3° End 3° | Direction to Obs. Pt. (Degrees) Start 335° End 335°
Distance and Direction to Observer Start 0<0 | Point from Emission Point End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start trees End trees
Background Color Start dark green End dark green | Sky Conditions Start scattered End scattered
Wind Speed Start 5mph End 5mph | Wind Direction Start N End N
Ambient Temp. Start 59°F End 64°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2
Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 13:50 | End Time: 14:20

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satevika
Observer's Signature: Pandu Satevika | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: GREEN | Unit #: | Operating Mode: WET
Control Equipment: water spray/screen | Operating Mode:

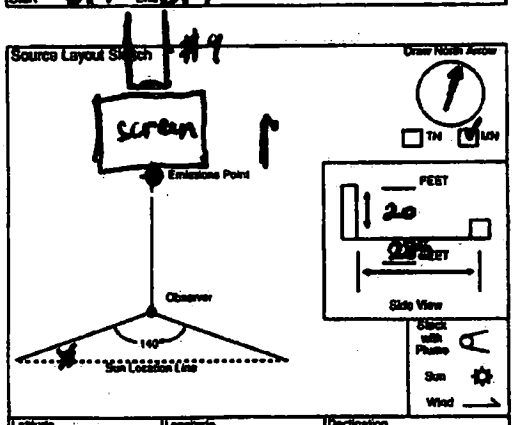
Describe Emissions Point: Above the 8'x20' screen after conveyor #9
Height of Emiss. Pt. Start 20 End 20 | Height of Emiss. Pt. Rel. to Observer Start [illegible] End [illegible]
Distance to Emiss. Pt. Start 285 End 285 | Direction to Emiss. Pt. (Degrees) Start 330° End 330°

Vertical Angle to Obs. Pt. Start 25° End 25° | Direction to Obs. Pt. (Degrees) Start 330° End 330°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start trees End trees
Background Color Start dark green End dark green | Sky Conditions Start Scattered End scattered
Wind Speed Start Smph End Smph | Wind Direction Start N End N
Ambient Temp. Start 69°F End 69°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 13:20 | End Time: 13:50

Min. \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: SCREEN | Unit #: | Operating Mode: WET
Control Equipment: WATER SPRAY / Screen | Operating Mode:

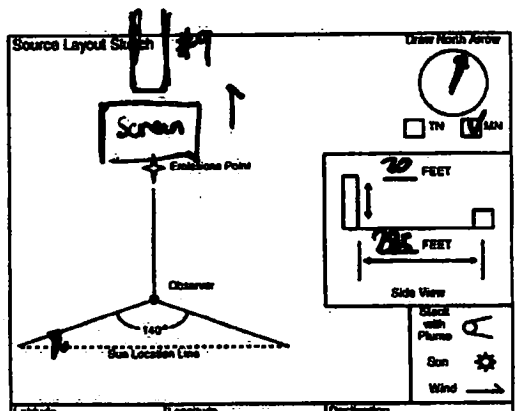
Describe Emissions Point: Above the screen after conveyor #9
Height of Emiss. Pt. Start 20' End 20' | Height of Emiss. Pt. Rel. to Observer Start 0 End 0
Distance to Emiss. Pt. Start 285' End 285' | Direction to Emiss. Pt. (Degrees) Start 330° End 330°

Vertical Angle to Obs. Pt. Start 4° End 4° | Direction to Obs. Pt. (Degrees) Start 330° End 330°
Distance and Direction to Observation Point from Emission Point Start 0.0 End 0.0

Describe Emissions Start N/N End N/N
Emission Color Start N/N End N/N | Water Droplet Plume Start N/N End N/N

Describe Plume Background Start trees End trees
Background Color Start dark green End dark green | Sky Conditions Start scattered End scattered
Wind Speed Start 5mph End 5mph | Wind Direction Start N End N
Ambient Temp. Start 69°F End 64°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2
Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 13:50 | End Time: 14:20

Min. \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satvika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

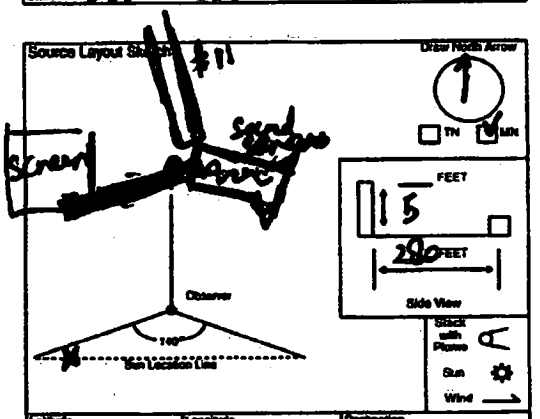
Describe Emissions Point: Conveyor drop gt point to sand screw
Height of Emiss. Pt. Start 5' End 5' | Height of Emiss. Pt. Rel. to Observer Start 0 End 0
Distance to Emiss. Pt. Start 280' End 280' | Direction to Emiss. Pt. (Degrees) Start 0° End 0°

Vertical Angle to Obs. Pt. Start ~0 End ~0 | Direction to Obs. Pt. (Degrees) Start 0° End 0°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start quarry End quarry
Background Color Start grey End grey | Sky Conditions Start overcast End overcast
Wind Speed Start 0 mph End 0 mph | Wind Direction Start N/A End N/A
Ambient Temp. Start 58°F End 58°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch: #11



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: [illegible]:30 | End Time: 15:00

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sattvika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th N North
City: Tulsa State: OK Zip:

Process: Conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

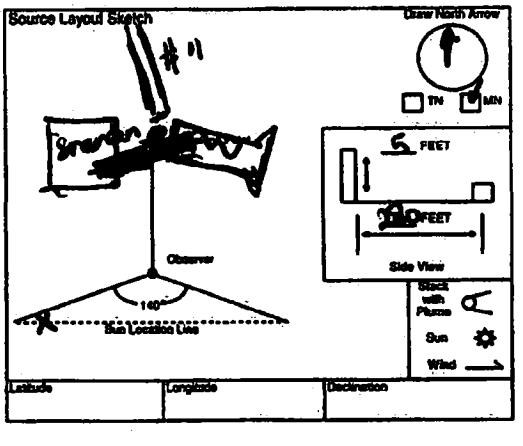
Describe Emissions Point: conveyer drop off point to sandscreen
Height of Emiss. Pt. Start: 5' End: 5' Height of Emiss. Pt. Rel. to Observer Start: 0 End: 0
Distance to Emiss. Pt. Start: 280' End: 280' Direction to Emiss. Pt. (Degrees) Start: 0° End: 0°

Vertical Angle to Obs. Pt. Start: 0° End: 0° Direction to Obs. Pt. (Degrees) Start: 0° End: 0°
Distance and Direction to Observation Point from Emission Point Start: 020 End: 020

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/A End: N/A Water Droplet Plume Start: N/A End: N/A

Describe Plume Background Start: quarry End: quarry
Background Color Start: gray End: gray Sky Conditions Start: partly cloudy End: partly cloudy
Wind Speed Start: 0 mph End: 0 mph Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 58°F End: 59°F Wet Bulb Temp. RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok Page: 1 of 2
Continuation Form Number:

Observation Date: 9/14/05 Time Zone: Central Start Time: 15:00 End Time: 15:30

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: Pandu Sastrika Date: 9/14/05
Organization: Air Hygiene, Inc
Certified by: ETA Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

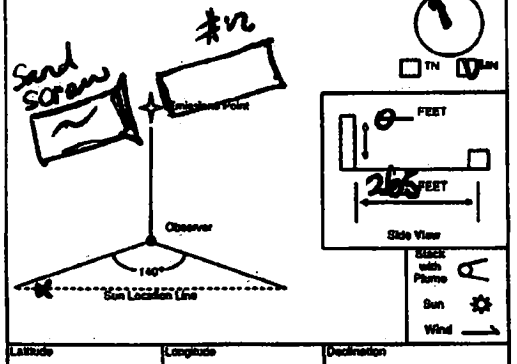
Describe Emissions Point: conveyor drop off point from sand screw to conveyor #12
Height of Emiss. Pt. Start: 0 End: 0 | Height of Emiss. Pt. Rel. to Observer Start: -5 End: -5
Distance to Emiss. Pt. Start: 265 End: 265 | Direction to Emiss. Pt. (Degrees) Start: S End: S

Vertical Angle to Obs. Pt. Start: 0 End: 0 | Direction to Obs. Pt. (Degrees) Start: S End: S
Distance and Direction to Observation Point from Emission Point Start: 0 L 0 End: 0 L 0

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V | Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: quarry End: quarry
Background Color Start: grey End: grey | Sky Conditions Start: Overcast End: Overcast
Wind Speed Start: 0 End: 0 | Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 58 F End: 58 F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-Owasso.pk spec#1 | Page 1 of 2
Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 14:30 | End Time: 15:00

Min / Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: Randy Satterlee | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

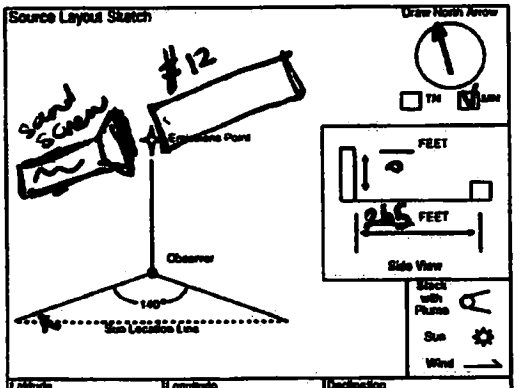
Describe Emissions Point: conveyor drop off point from sand screen to conveyor #12
Height of Emiss. Pt. Start 0 End 0 | Height of Emiss. Pt. Rel. to Observer Start -5 End -5
Distance to Emiss. Pt. Start 265 End 265 | Direction to Emiss. Pt. (Degrees) Start 5° End 5°

Vertical Angle to Obs. Pt. Start 0 End 0 | Direction to Obs. Pt. (Degrees) Start 6° End 6°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start quarry End quarry
Background Color Start grey End grey | Sky Conditions Start Scattered End Scattered
Wind Speed Start 0 End 0 | Wind Direction Start N/A End N/A
Ambient Temp. Start 58°F End 59°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2
Continued on Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 15:00 | End Time: 15:30

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
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16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: Pandu Satavika | Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

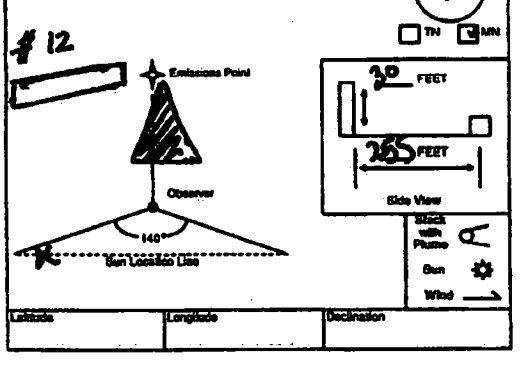
Describe Emissions Point: drop off stockpiles from conveyor #12
Height of Emiss. Pt.: Start 30 End 30 | Height of Emiss. Pt. Rel. to Observer: Start 10 End 10
Distance to Emiss. Pt.: Start 255 End 255 | Direction to Emiss. Pt. (Degrees): Start 10° End 10°

Vertical Angle to Obs. Pt.: Start 4° End 4° | Direction to Obs. Pt. (Degrees): Start 10° End 10°
Distance and Direction to Observation Point from Emission Point: Start 0LO End 0LO

Describe Emissions: Start N/V End N/V
Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start quarry End quarry
Background Color: Start grey End grey | Sky Conditions: Start scattered End scattered
Wind Speed: Start 0 End 0 | Wind Direction: Start N/A End N/A
Ambient Temp.: Start 58 F End 58F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-OWASSO.ok opac#1 | Page 1 of 2
Continuation Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 09:30 | End Time: 15:00

Min.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
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13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
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18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Sartwika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa State: OK Zip:

Process: Conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

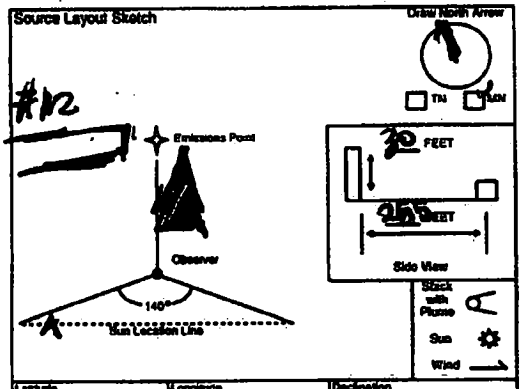
Describe Emissions Point: drop off stockpiles from Conveyor #12
Height of Emiss. Pt. Start: 30 End: 30
Height of Emiss. Pt. Rel. to Observer Start: 0 End: 10
Distance to Emiss. Pt. Start: 265 End: 265
Direction to Emiss. Pt. (Degrees) Start: 10° End: 10°

Vertical Angle to Obs. Pt. Start: 40 End: 40
Direction to Obs. Pt. (Degrees) Start: 10° End: 10°
Distance and Direction to Observation Point from Emission Point Start: 260 End: 260

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V
Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: Quarry End: quarry
Background Color Start: grey End: grey
Sky Conditions Start: Scattered End: scattered
Wind Speed Start: 0 End: 0
Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 68F End: 69F
Wet Bulb Temp. RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-OWASSO.ok opac Page: #1 of 2
Continuation Form Number

Observation Date: 9/14/05 Time Zone: Central Start Time: 15:00 End Time: 16:30

Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
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19	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: Randy Satterlee Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

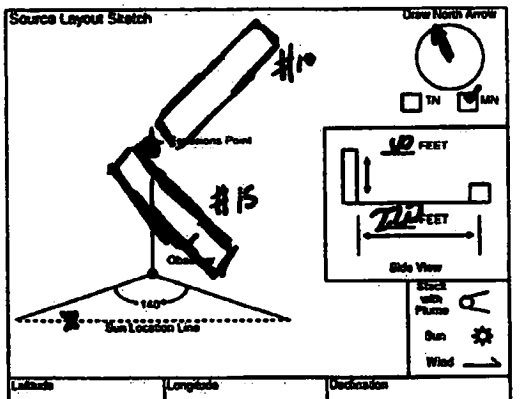
Describe Emissions Point: conveyor drop off point from #10 to #15
Height of Emiss. Pt.: Start 10' End 10' | Height of Emiss. Pt. Rel. to Observer: Start 10' End 10'
Distance to Emiss. Pt.: Start 220' End 220' | Direction to Emiss. Pt. (Degrees): Start 30 End 30

Vertical Angle to Obs. Pt.: Start 3° End 3° | Direction to Obs. Pt. (Degrees): Start 30 End 30
Distance and Direction to Observation Point from Emission Point: Start 060° End 060

Describe Emissions: Start N/V End N/V
Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start gray End gray
Background Color: Start gray End gray | Sky Conditions: Start Overcast End Overcast
Wind Speed: Start 10 End 10 | Wind Direction: Start N/A End N/A
Ambient Temp.: Start 64F End 64F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-OWASSO.ok opac #1 | Page 1 of 2
Continued on Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 15:46 | End Time: 16:15

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: Randy Satterlee | Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

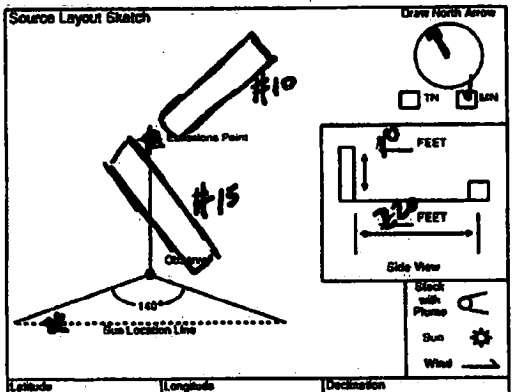
Describe Emissions Point: Conveyor drop off point from #10 to #15
Height of Emiss. Pt. Start: 10' End: 10' | Height of Emiss. Pt. Rel. to Observer Start: 10' End: 10'
Distance to Emiss. Pt. Start: 220' End: 220' | Direction to Emiss. Pt. (Degrees) Start: 30 End: 30

Vertical Angle to Obs. Pt. Start: 3° End: 3° | Direction to Obs. Pt. (Degrees) Start: 30 End: 30
Distance and Direction to Observation Point from Emission Point Start: 0.40 End: 0.40

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/N End: N/N | Water Droplet Plume Start: N/V End: N/N

Describe Plume Background Start: quarry End: quarry
Background Color Start: grey End: grey | Sky Conditions Start: overcast End: overcast
Wind Speed Start: 0 End: 0 | Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 65°F End: 65°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2.2
Continuation Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 16:15 | End Time: 16:45

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14201 E. 46th St North
City: Tulsa State: OK Zip:

Process: conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

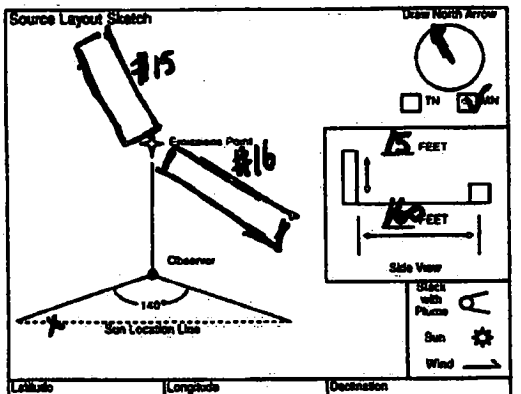
Describe Emissions Point: conveyor drop off point from #15 to #16
Height of Emiss. Pt. Start: 15 End: 15 | Height of Emiss. Pt. Rel. to Observer Start: 15 End: 15
Distance to Emiss. Pt. Start: 160' End: 160' | Direction to Emiss. Pt. (Degrees) Start: 35 End: 35°

Vertical Angle to Obs. Pt. Start: 30 End: 30 | Direction to Obs. Pt. (Degrees) Start: 35° End: 35°
Distance and Direction to Observation Point from Emission Point Start: 020 End: 020

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V | Water Droplet Plume Start: N/V End: N/V

Describe Plume Background
Start: grassy End: grassy
Background Color Start: grey End: grey | Sky Conditions Start: overcast End: overcast
Wind Speed Start: End: | Wind Direction Start: End:
Ambient Temp. Start: 62 F End: 64 F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 Page 1 of 2
Continuation Form Number

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 15:45 | End Time: 16:15

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: Pandu Sastrika Date: 9/14/05
Organization: Air Hygiene, Inc.
Certified By: ETA Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14201 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

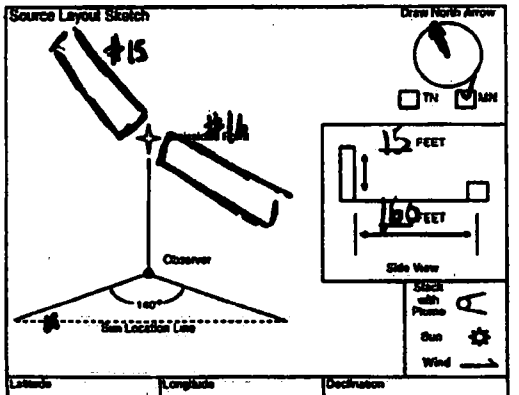
Describe Emissions Point: conveyor drop off point from #15 to #16
Height of Emiss. Pt. Start: 15 End: 15
Height of Emiss. Pt. Rel. to Observer Start: 15 End: 15
Distance to Emiss. Pt. Start: 160' End: 160'
Location to Emiss. Pt. (Degrees) Start: 35° End: 35°

Vertical Angle to Obs. Pt. Start: 3° End: 3°
Direction to Obs. Pt. (Degrees) Start: 35° End: 35°
Distance and Direction to Observation Point from Emission Point Start: 060 End: 060

Describe Emissions Start: N/N End: N/N
Emission Color Start: N/N End: N/N
Water Droplet Plume Start: N/ End:

Describe Plume Background Start: grey End: grey
Background Color Start: grey End: grey
Sky Conditions Start: scattered End: scattered
Wind Speed Start: 0 End: 0
Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 64F End: 66F
Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-OWASSO.ok opacity #1 | Page 2 of 2
Continuation Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 16:15 | End Time: 16:45

Min / Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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22	0	0	0	0	
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24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Brandy Satterlee
Observer's Signature: Brandy Satterlee | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

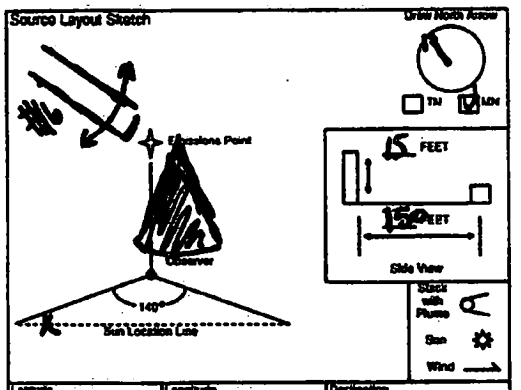
Describe Emissions Point: Stockpile drop off point from conveyor #16
Height of Emiss. Pt.: Start 15' End 15' | Height of Emiss. Pt. Rel. to Observer: Start 15' End 15'
Distance to Emiss. Pt.: Start 150' End 150' | Direction to Emiss. Pt. (Degrees): Start 45° End 45°

Vertical Angle to Obs. Pt.: Start 5° End 5° | Direction to Obs. Pt. (Degrees): Start 45° End 45°
Distance and Direction to Observation Point from Emission Point: Start 0<0 End 0<0

Describe Emissions: Start N/V End N/V
Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start sky End sky
Background Color: Start blue End blue | Sky Conditions: Start scattered End scattered
Wind Speed: Start 0 End 0 | Wind Direction: Start N/A End N/A
Ambient Temp.: Start 62F End 64F | Wet Bulb Temp.: | RH Percent:

Source Layout Sketch



Latitude: | Longitude: | Declination:

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 15:45 | End Time: 16:15

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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20	0	0	0	0	
21	0	0	0	0	
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23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: [signature] | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

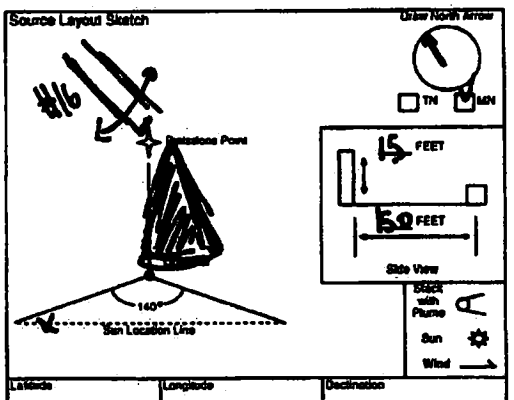
Describe Emissions Point: Stockpile drop off point from conveyor #16
Height of Emiss. Pt. Start: 15' End: 35' | Height of Emiss. Pt. Rel. to Observer Start: 15 End: 15
Distance to Emiss. Pt. Start: 150' End: 150' | Direction to Emiss. Pt. (Degrees) Start: 45° End: 45°

Vertical Angle to Obs. Pt. Start: 5° End: 5° | Direction to Obs. Pt. (Degrees) Start: 45° End: 45°
Distance and Direction to Observation Point from Emission Point Start: 0LO End: 0LO

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V | Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: sky End: sky
Background Color Start: blue End: blue | Sky Conditions Start: Scattered End: Scattered
Wind Speed Start: 0 End: 0 | Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 64°F End: 66°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-OWASSO.ok opacity #1 | Page: 22
Continuation Form Number:
Observation Date: 9/14/05 | Time Zone: Central | Start Time: 16:15 | End Time: 16:45

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
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16	0	0	0	0	
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18	0	0	0	0	
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20	0	0	0	0	
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22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: Randy Satterlee | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th N North
City: Tulsa | State: OK | Zip:

Process: Conveyer | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

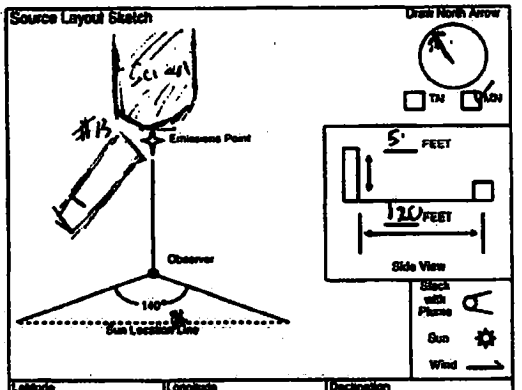
Describe Emissions Point: Emis. Pt. and Screen of Conveyor #13
Height of Emiss. Pt. Start 5' End 5' | Height of Emiss. Pt. Rel. to Observer Start 5' End 5'
Distance to Emiss. Pt. Start 120' End 120' | Direction to Emiss. Pt. (Degrees) Start 45° End 45°

Vertical Angle to Obs. Pt. Start 0 End 0 | Direction to Obs. Pt. (Degrees) Start 45° End 45°
Distance and Direction to Observation Point from Emission Point Start ESE End ESE

Describe Emissions: Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background: Start Varies End Varies
Background Color Start Sky End Sky | Sky Conditions Start Overcast End Overcast
Wind Speed Start 0 m/h End 0 m/h | Wind Direction Start N/A End N/A
Ambient Temp. Start 45°F End | Wet Bulb Temp. | RH Percent 100%

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information: Light precipitation

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok opac #1 | Page 1, 2
Continuation Form Number:

Observation Date: 9/19/05 | Time Zone: Central | Start Time: 9:00 | End Time: 9:30

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: Pandu Sastrika | Date: 9/19/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th N North
City: Tulsa | State: OK | Zip:

Process: Conveyer | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

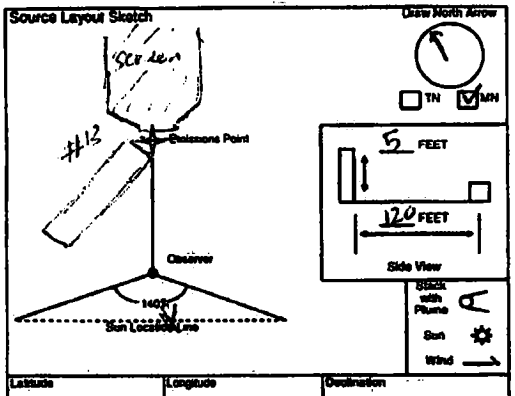
Describe Emissions Point: transfer point of conveyor #13 with screen
Height of Emiss. Pt. Start: 5' End: 5' | Height of Emiss. Pt. Rel. to Observer Start: 5' End: 5'
Distance to Emiss. Pt. Start: 120' End: 120' | Direction to Emiss. Pt. (Degrees) Start: 45° End: 45°

Vertical Angle to Obs. Pt. Start: 0 End: 0 | Direction to Obs. Pt. (Degrees) Start: 45° End: 45°
Distance and Direction to Observation Point from Emission Point: Start: 120 End: 120

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V | Water Droplet Plume Start: N/V End: N/V

Describe Plume Background
Start: gravel End: gravel
Background Color Start: sky End: sky | Sky Conditions Start: overcast End: overcast
Wind Speed Start: 0 End: 0 | Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 48 F End: | Wet Bulb Temp. | RH Percent: 100%

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2
Continuation Form Number:

Observation Date: 8/19/05 | Time Zone: Central | Start Time: 9:30 | End Time: 10:00

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satrika
Observer's Signature: Pandu Satrika | Date: 8/19/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

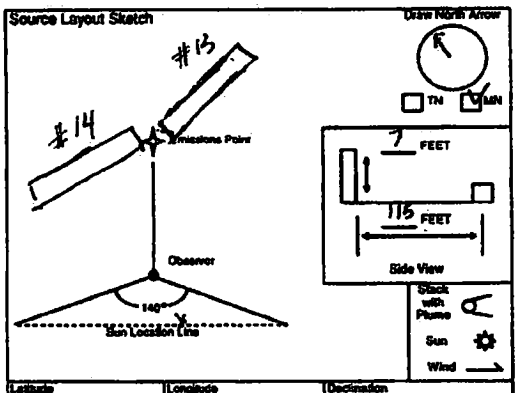
Describe Emissions Point: fugitive point between conveyor #13 and #14
Height of Emiss. Pt.: Start 7' End 7' | Height of Emiss. Pt. Rel. to Observer: Start 7' End 7'
Distance to Emiss. Pt.: Start 115' End 115' | Direction to Emiss. Pt. (Degrees): Start 42° End 42°

Vertical Angle to Obs. Pt.: Start 0 End 0 | Direction to Obs. Pt. (Degrees): Start 42° End 42°
Distance and Direction to Observation Point from Emission Point: Start 0 L 0 End 0 L 0

Describe Emissions: Start N/V End N/V
Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start quarry End quarry
Background Color: Start sky End grey | Sky Conditions: Start overcast End overcast
Wind Speed: Start 0 End 0 | Wind Direction: Start N/A End N/A
Ambient Temp.: Start 48°F End | Wet Bulb Temp. | RH Percent: 100%

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information: light precipitation

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continuation Form Number:

Observation Date: 3/15/05 | Time Zone: Central | Start Time: 9:00 | End Time: 9:30

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
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5	0	0	0	0	
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25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: Pandu Satavika | Date: 3/15/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14201 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

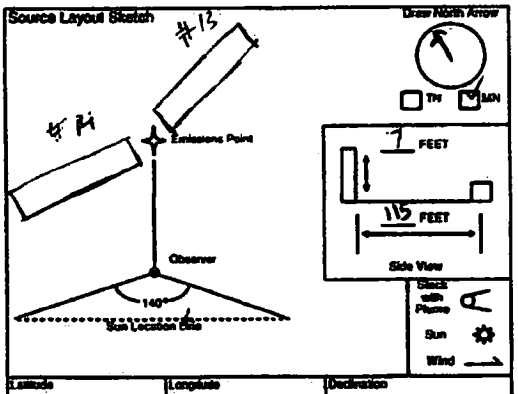
Describe Emissions Point: transfer point between conveyor #13 and #14
Height of Emiss. Pt. Start: 7' End: 7' | Height of Emiss. Pt. Rel. to Observer Start: 7' End: 7'
Distance to Emiss. Pt. Start: 115' End: 115' | Direction to Emiss. Pt. (Degrees) Start: 42° End: 42°

Vertical Angle to Obs. Pt. Start: 0 End: 0 | Direction to Obs. Pt. (Degrees) Start: 42° End: 42°
Distance and Direction to Observation Point from Emission Point Start: OLO End: OLO

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/N End: N/N | Water Droplet Plume Start: N/N End: N/V

Describe Plume Background Start: quarry End: quarry
Background Color Start: grey End: grey | Sky Conditions Start: overcast End: overcast
Wind Speed Start: 0 End: 0 | Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 48°F End: | Wet Bulb Temp. | RH Percent: 100%

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-OWASSO.pk opac#1 | Page 2 of 2
Continuation Form Number:

Observation Date: 9/15/05 | Time Zone: Central | Start Time: 9:30 | End Time: 10:00

min \ sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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9	0	0	0	0	
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11	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: [signature] | Date: 9/15/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th N North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

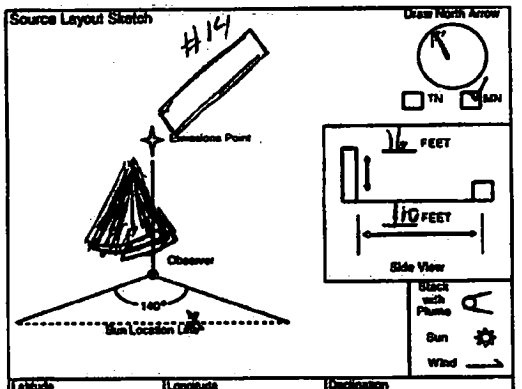
Describe Emissions Point: drop point to Stockpile by conveyor #14
Height of Emiss. Pt. Start: 16' End: 16' | Height of Emiss. Pt. Rel. to Observer Start: 16' End: 16'
Distance to Emiss. Pt. Start: 110' End: 110' | Direction to Emiss. Pt. (Degrees) Start: 35° End: 35°

Vertical Angle to Obs. Pt. Start: 5° End: 5° | Direction to Obs. Pt. (Degrees) Start: 35° End: 35°
Distance and Direction to Observation Point from Emission Point Start: 0 End: 0

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V | Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: sky End: sky
Background Color Start: light gray End: light gray | Sky Conditions Start: overcast End: overcast
Wind Speed Start: 0 End: 0 | Wind Direction Start: N/A End: N/A
Ambient Temp. Start: 40F End: | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information: Light precipitation

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:

Observation Date: 9/14/05 | Time Zone: Central | Start Time: 9:30 | End Time: 10:00

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterfield
Observer's Signature: Randy Satterfield | Date: 9/14/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

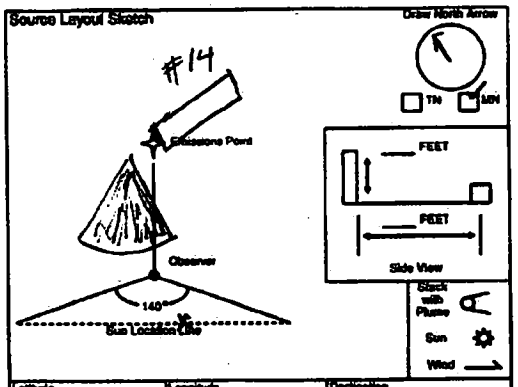
Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emissions Point: drop off point to stockpile of conveyor #14

	Start	End
Height of Emiss. Pt.	16'	16'
Height of Emiss. Pt. Rel. to Observer	16'	16'
Distance to Emiss. Pt.	110'	110'
Direction to Emiss. Pt. (Degrees)	35°	35°
Vertical Angle to Obs. Pt.	5°	5°
Direction to Obs. Pt. (Degrees)	35°	35°
Distance and Direction to Observation Point from Emission Point	0<0	0<0
Describe Emissions	N/V	N/V
Emission Color	N/V	N/V
Water Droplet Plume	N/V	N/V
Describe Plume Background	tree	tree
Background Color	dark green	dark green
Sky Conditions	[illegible]	wet cast
Wind Speed	0	0
Wind Direction	N/A	N/A
Ambient Temp.	48°F	
Wet Bulb Temp.		
RH Percent	100%	

Source Layout Sketch



Latitude	Longitude	Declination

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2
Continued on Form Number:

Observation Date	Time Zone	Start Time	End Time
3/15/05	Central	9:00	9:30

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satarika
Observer's Signature: Pandu Satarika | Date: 3/15/05
Organization: Air Hygiene, Inc.
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th St North

City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emissions Point: transfer point from conveyor #5 to conveyor #6

Height of Emiss. Pt. Start 30' End 30' | Height of Emiss. Pt. Rel. to Observer Start 40' End 40'

Distance to Emiss. Pt. Start 300' End 300' | Direction to Emiss. Pt. (Degrees) Start 31° End 31°

Vertical Angle to Obs. Pt. Start 3° End 3° | Direction to Obs. Pt. (Degrees) Start 31° End 31°

Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V

Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

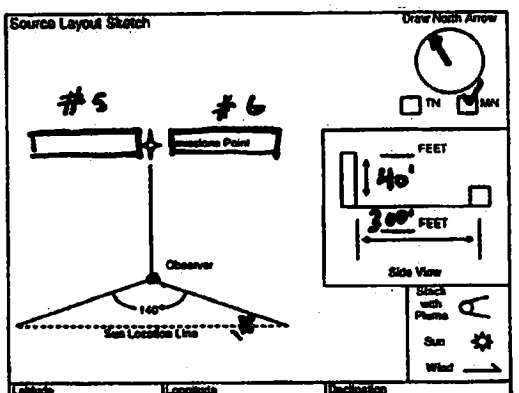
Describe Plume Background Start quarry End quarry

Background Color Start grey End grey | Sky Conditions Start overcast End overcast

Wind Speed Start 5mph End 5mph | Wind Direction Start E End E

Ambient Temp. Start 49 F End | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2

Continued on Form Number:

Observation Date: 3/16/05 | Time Zone: Central | Start Time: 9:40 | End Time: 10:10

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satevika

Observer's Signature: [signature] | Date: 3/16/05

Organization: Air Hygiene, Inc.

Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th St North

City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:

Control Equipment: | Operating Mode:

Describe Emissions Point: transfer point from conveyor #5 to conveyor #6

Height of Emiss. Pt.: Start 40' End 40' | Height of Emiss. Pt. Rel. to Observer: Start 40' End 40'

Distance to Emiss. Pt.: Start 300' End 300' | Direction to Emiss. Pt. (Degrees): Start 31° End 31°

Vertical Angle to Obs. Pt.: Start 3° End 3° | Direction to Obs. Pt. (Degrees): Start 31° End 31°

Distance and Direction to Observation Point from Emission Point: Start 0<0 End 0<0

Describe Emissions: Start N/V End N/V

Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

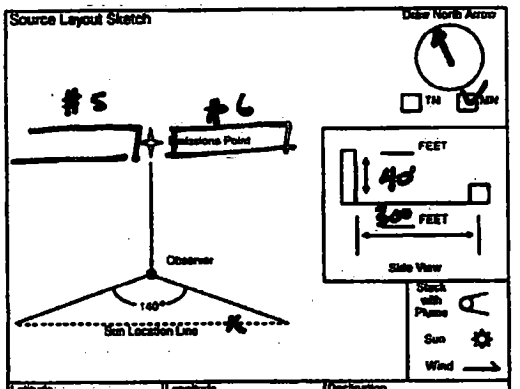
Describe Plume Background: Start quarry End quarry

Background Color: Start grey End grey | Sky Conditions: Start overcast End overcast

Wind Speed: Start 5mph End 5mph | Wind Direction: Start E End E

Ambient Temp.: Start 49F End 50F | Wet Bulb Temp.: | RH Percent:

Source Layout Sketch



Latitude: | Longitude: | Declination:

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2

Continued on Form Number:

Observation Date: 3/16/05 | Time Zone: Central | Start Time: 10:10 | End Time: 10:40

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satevika

Observer's Signature: [signature] | Date: 3/16/05

Organization: Air Hygiene, Inc

Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

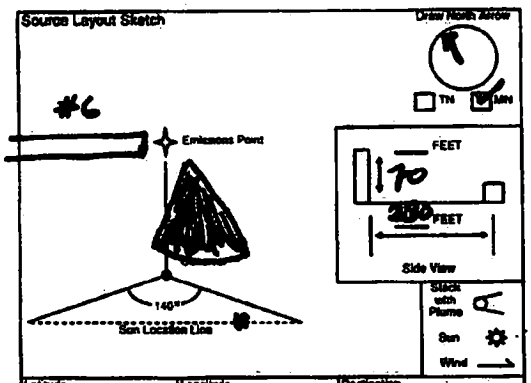
Describe Emissions Point: stockpile drop of point of conveyor #6
Height of Emiss. Pt. Start 90' End 90' | Height of Emiss. Pt. Rel. to Observer Start 90' End 90'
Distance to Emiss. Pt. Start 280' End 280' | Direction to Emiss. Pt. (Degrees) Start 35° End 35°

Vertical Angle to Obs. Pt. Start 10° End 10° | Direction to Obs. Pt. (Degrees) Start 35° End 35°
Distance and Direction to Observation Point from Emission Point Start 0&0 End 0&0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start sky End sky
Background Color Start blue End blue | Sky Conditions Start overcast End overcast
Wind Speed Start Smph End Smph | Wind Direction Start E End E
Ambient Temp. Start 49F End | Wet Bulb Temp. | RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:
Observation Date: 3/18/05 | Time Zone: Central | Start Time: 9:40 | End Time: 10:40

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: [signature] | Date: 3/18/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th N North
City: Tulsa State: OK Zip:

Process: Conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

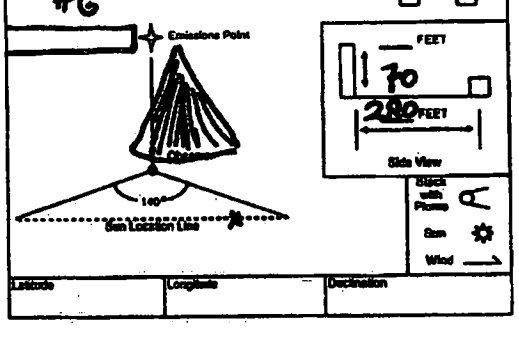
Describe Emissions Point: Stockpile drop off point of conveyor #6
Height of Emiss. Pt. Start: 70' End: 70'
Height of Emiss. Pt. Rel. to Observer Start: 70' End: 70'
Distance to Emiss. Pt. Start: 280' End: 280'
Direction to Emiss. Pt. (Degrees) Start: 35° End: 35°

Vertical Angle to Obs. Pt. Start: 10° End: 10°
Direction to Obs. Pt. (Degrees) Start: 35° End: 35°
Distance and Direction to Observation Point from Emission Point Start: 020 End: 020

Describe Emissions Start: N/V End: N/V
Emission Color Start: N/V End: N/V
Water Droplet Plume Start: N/V End: N/V

Describe Plume Background Start: sky End: sky
Background Color Start: blue End: blue
Sky Conditions Start: overcast End: overcast
Wind Speed Start: 5mph End: 5mph
Wind Direction Start: E End: E
Ambient Temp Start: 49 F End: 50F
Wet Bulb Temp. RH Percent

Source Layout Sketch — Draw North Arrow



Latitude | Longitude | Declination

Additional Information

Form Number: green-DS-OWASSO.pk opac#1 Page 2 of 2
Continuation Form Number

Observation Date: 3/18/05 Time Zone: Central Start Time: 10:30 End Time: 10:45

Min \ Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Brenda Sapavela
Observer's Signature: Brenda Sapavela Date: 3/18/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

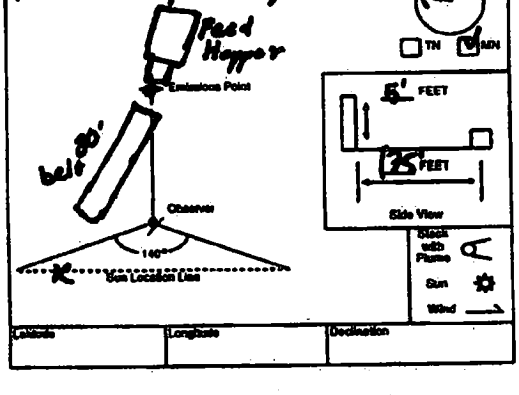
Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th S North
City: Tulsa | State: OK | Zip:

Process: Conveyer | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emissions Point: transfer point from feed hopper to 80' belt
Height of Emiss. Pt.: Start 5' End 5' | Height of Emiss. Pt. Rel. to Observer: Start 5' End 5'
Distance to Emiss. Pt.: Start | End | Direction to Emiss. Pt. (Degrees): Start 75° End 75°
175' 175'
Vertical Angle to Obs. Pt.: Start 0 End 0 | Direction to Obs. Pt. (Degrees): Start 75° End 75°
Distance and Direction to Observation Point from Emission Point: Start 040 End 040

Describe Emissions: Start N/V End N/V
Emission Color: Start N/V End N/V | Water Droplet Plume: Start N/V End N/V

Describe Plume Background: Start grassy End grassy
Background Color: Start gray End gray | Sky Conditions: Start clear End clear
Wind Speed: Start 5mph End 5mph | Wind Direction: Start E End E
Ambient Temp.: Start 52°F End 54°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch: Rail Loading Conveyors


Latitude | Longitude | Declination

Additional Information:

VISUAL EMISSIONS OBSERVATION FORM

Form Number: green-05-OWASSO.pk opac#1 | Page 1 of 2
Continuation Form Number:
Observation Date: 3/16/05 | Time Zone: Central | Start Time: 12:30 | End Time: 13:40

Min \ Sec	0	15	30	45	Comments
1	P	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	Moving Cars
19	0	0	0	0	Moving Cars
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Randy Satterlee
Observer's Signature: Randy Satterlee | Date: 3/16/05
Organization: Air Hygiene, Inc
Certified by: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

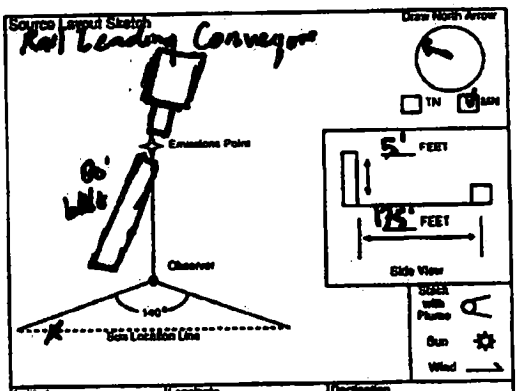
Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emissions Point: transfer point from feed hopper to 80' belt

	Start	End
Height of Emiss. Pt.	5'	5'
Height of Emiss. Pt. Rel. to Observer	5	5'
Distance to Emiss. Pt.	175'	175'
Direction to Emiss. Pt. (Degrees)	75°	75°
Vertical Angle to Obs. Pt.	0	0
Direction to Obs. Pt. (Degrees)	75°	75°
Distance and Direction to Observation Point from Emission Point	0<0	0<0
Describe Emissions	N/V	N/V
Emission Color	N/V	N/V
Water Droplet Plume	N/V	N/V
Describe Plume Background	quarry	quarry
Background Color	grey	grey
Sky Conditions	clear	clear
Wind Speed	5	5
Wind Direction	E	E
Ambient Temp.	54F	55F
Wet Bulb Temp.		
RH Percent		

Source Layout Sketch: Rail Loading Conveyor



Latitude	Longitude	Declination

Additional Information:

Form Number: green-05-owasso.ok opac#1 | Page 2 of 2
Continued on Form Number:

Observation Date	Time Zone	Start Time	End Time
3/16/05	Central	17:40	18:10

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	moving cars
11	0	0	0	0	moving cars
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	moving cars
30	0	0	0	0	moving cars

Observer's Name (Print): Pandu Satavika
Observer's Signature: Pandu Satavika | Date: 3/16/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) 203A 203B Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa State: OK Zip:

Process: Conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

Describe Emissions Point: transfer point from 80' belt to 350' belt

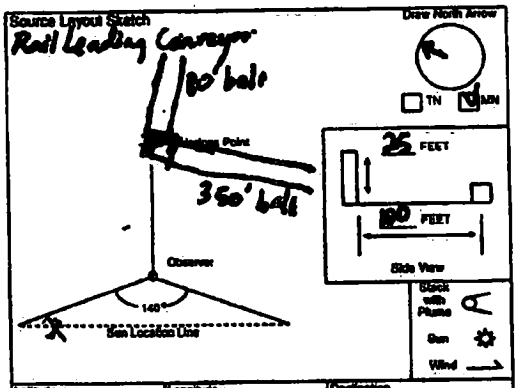
Height of Emiss. Pt. Start 25' End 25'
Height of Emiss. Pt. Rel. to Observer Start 25' End 25'
Distance to Emiss. Pt. Start 160' End 100'
Direction to Emiss. Pt. (Degrees) Start 70° End 70°

Vertical Angle to Obs. Pt. Start 5° End 5°
Direction to Obs. Pt. (Degrees) Start 70° End 70°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V
Water Droplet Plume Start N/V End N/V

Describe Plume Background Start sky End sky
Background Color Start blue End blue
Sky Conditions Start clear End clear
Wind Speed Start 0 End
Wind Direction Start End
Ambient Temp. Start 54 F End 55 F
Wet Bulb Temp.
RH Percent

Source Layout Sketch



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 Page 1 of 2
Continued on Form Number:

Observation Date: 3/16/05 Time Zone: Central Start Time: 17:10 End Time: 17:40

Min. \ Sec.	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
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12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	moving cars
19	0	0	0	0	moving cars
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satavika
Observer's Signature: [signature] Date: 3/16/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa State: OK Zip:

Process: Conveyor Unit #: Operating Mode:
Control Equipment: Operating Mode:

Describe Emissions Point: transfer point between 80' belt to 350' belt
Height of Emiss. Pt. Start 25' End 25' | Height of Emiss. Pt. Rel. to Observer Start 25' End 25'
Distance to Emiss. Pt. Start 100' End 100' | Direction to Emiss. Pt. (Degrees) Start 70° End 70°

Vertical Angle to Obs. Pt. Start 5° End 5° | Direction to Obs. Pt. (Degrees) Start 70° End 70°
Distance and Direction to Observation Point from Emission Point Start OCO End OCO

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start sky End sky
Background Color Start blue End blue | Sky Conditions Start clear End clear
Wind Speed Start 5 End 5 | Wind Direction Start E End E
Ambient Temp. Start 54F End 55F | Wet Bulb Temp. | RH Percent

Source Layout Sketch: Rail Loading Conveyor, 80' belt, 350' belt, Emissions Point, Observer, 140°, Sun Location Line, 25 FEET, 100 FEET, Side View, Show North Arrow, TN, MN, Black with Plume, Sun, Wind

Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.pk opac#1 Page 1 of 2
Continuation Form Number
Observation Date: 3/18/05 Time Zone: Central Start Time: 11:40 End Time: 18:10

Min / Sec	0	15	30	45	Comments
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9	0	0	0	0	
10	0	0	0	0	moving cars
11	0	0	0	0	moving cars
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
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18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Sastrika
Observer's Signature: Pandu Sastrika Date: 3/18/05
Organization: Air Hygiene, Inc
Certified By: ETA Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) | 203A | 203B | Other: _____

Company Name: GREENHILL MATERIALS
Facility Name: OWASSO PLANT
Street Address: 14701 E. 46th St North
City: Tulsa | State: OK | Zip:

Process: Conveyor | Unit #: | Operating Mode:
Control Equipment: | Operating Mode:

Describe Emissions Point: Drop off point to the Rail cars

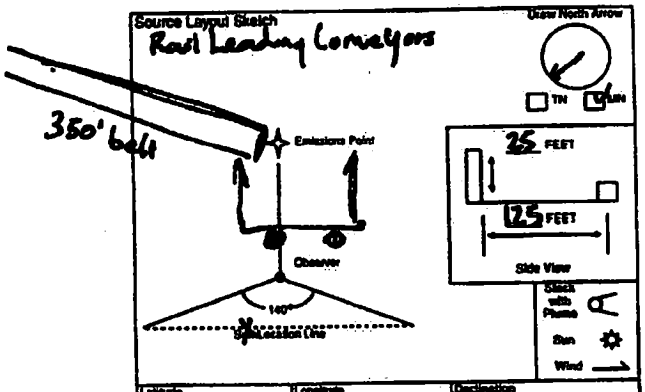
Height of Emiss. Pt. Start 25' End 25' | Height of Emiss. Pt. Rel. to Observer Start 25' End 25'
Distance to Emiss. Pt. Start 125' End 125' | Direction to Emiss. Pt. (Degrees) Start 115° End 115°

Vertical Angle to Obs. Pt. Start 4° End 4° | Direction to Obs. Pt. (Degrees) Start 115° End 115°
Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V
Emission Color Start N/V End N/V | Water Droplet Plume Start N/V End N/V

Describe Plume Background Start gravel End gravel
Background Color Start yellow End yellow | Sky Conditions Start clear End clear
Wind Speed Start 5mph End 5mph | Wind Direction Start E End E
Ambient Temp. Start 53°F End 53°F | Wet Bulb Temp. | RH Percent

Source Layout Sketch: Rail Loading Conveyors



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 | Page 1 of 2
Continued on Form Number:

Observation Date: 3/18/05 | Time Zone: Central | Start Time: 17:10 | End Time: 17:40

Min. \ Sec.	0	15	30	45	Comments
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	moving cars
19	0	0	0	0	moving cars
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): Pandu Satevika
Observer's Signature: [signature] | Date: 3/18/05
Organization: Air Hygiene, Inc
Certified By: ETA | Date: 10/20/04

VISUAL EMISSIONS OBSERVATION FORM

Method Used (Circle One): Method 9 (circled) 203A 203B Other: _____

Company Name: GREENHILL MATERIALS

Facility Name: OWASSO PLANT

Street Address: 14701 E. 46th G North

City: Tulsa State: OK Zip:

Process: conveyor Unit #: Operating Mode:

Control Equipment: Operating Mode:

Describe Emissions Point: drop off point to the Rail cars

Height of Emiss. Pt. Start 25' End 25' Height of Emiss. Pt. Rel. to Observer Start 25' End 25'

Distance to Emiss. Pt. Start 125' End 125' Direction to Emiss. Pt. (Degrees) Start 115° End 115°

Vertical Angle to Obs. Pt. Start 4° End 4° Direction to Obs. Pt. (Degrees) Start 115° End 115°

Distance and Direction to Observation Point from Emission Point Start 0<0 End 0<0

Describe Emissions Start N/V End N/V

Emission Color Start N/V End N/V Water Droplet Plume Start N/V End N/V

Describe Plume Background Start gravel End gravel

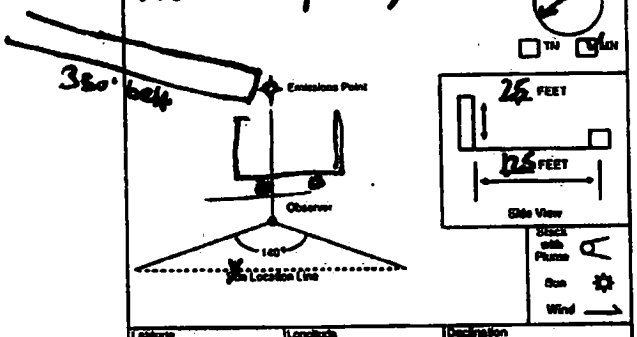
Background Color Start yellow End yellow Sky Conditions Start clear End clear

Wind Speed Start 5 End 5 Wind Direction Start E End E

Ambient Temp. Start 54F End 55F Wet Bulb Temp. RH Percent

Source Layout Sketch: Rail Loading Conveyors

Draw North Arrow: TN MN



Latitude | Longitude | Declination

Additional Information

Form Number: green-05-owasso.ok opac#1 Page 2 of 2

Continued on Form Number:

Observation Date: 3/16/05 Time Zone: Central Start Time: 12:40 End Time: 18:10

Min / Sec	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	moving cars
11	0	0	0	0	moving cars
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	moving cars
30	0	0	0	0	moving cars

Observer's Name (Print): Pandu Satavika

Observer's Signature: [signature] Date: 3/16/05

Organization: Air Hygiene, Inc

Certified By: ETA Date: 10/20/04

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Total Postage & Fees	$

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Sent To

Street, Apt. No.; or PO Box No.

City, State, ZIP+4

PS Form 3800, June 2002 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, & 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Shawn Roberts
Greenhill Materials
P.O Box 10
Catoosa, OK 74015

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x Jeannette Lacy ☐ Agent ☐ Addressee

B. Received by (Printed Name) Jeannette Lacy C. Date of Delivery 5-16-05

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7003 3110 0000 5561 3289

DY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

March 9, 2005

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Shawn Roberts, Plant Manager
Greenhill Materials Sherwood Construction
4716 N. 193rd E. Ave.
Catoosa, Oklahoma 74015

Re: February 4, 2005 Air Quality compliance evaluation at Greenhill Materials Sherwood Construction – Limestone Quarry.

Dear Mr. Roberts:

Enclosed is a copy of the report for the Air Quality compliance evaluation conducted on February 4, 2005, at the Limestone Quarry, located on Highway 266, Rogers County, Oklahoma. The inspector noted the following items of concern:

As a result of the inspection on February 14, 2005, the inspectors learned that Greenhill Materials has not submitted any Annual Emissions Inventories. OAC 252:100-5 states the following:

> **252:100-5-2.1. Emission inventory**
> (a) **Requirement to file an emission inventory.** Theowner or operator of any facility that is a source of air emissions shall submit a complete emission inventory annually on forms obtained from the Division.
>
> (1) **General requirements.** The inventory shall cover operations during a calendar year and shall be submitted prior to March 1 of the following year, unless the Division has granted a 30-day extension. An additional 30-day extension may be granted for good cause shown.

Information gathered during the inspection indicated that the facility did not conduct Reference Method 9 testing. Permit No. 99-034-O, Specific Condition 6 states the following:

> 6. The permittee shall notify the Agency in writing 5 working days before beginning the 2002 construction season. The permittee shall conduct opacity testing by Reference Method 9 for the primary crusher, pug mixer, each screen, and each transfer point of the conveyors (all as near as practical to equipment design capacity). This testing shall be finalized within 30 days after the beginning of the year 2002 construction season. The testing results shall be submitted to Air Quality within 10 working days after the required testing is completed as part of conditions of this operating permit.

At the time of the inspection, the facility was not recording the daily use of water for particulate matter control. Permit No. 99-034-O, Specific Condition 12 states the following:

12. The permittee shall keep records of operations as listed below. These records shall be retained on location or at a local field office for a period of at least two years following dates of recording, and shall be made available to regulatory personnel upon request.

(a) Throughput of the crusher (daily and 12 rolling).
(b) Throughput of the pug mixer (daily and 12 rolling).
(c) Hours of operation (daily and 12 rolling)
(d) Certification of sulfur content for each fuel delivery.
(e) Daily use of water used for PM control.

Finally, the inspectors learned that the Facility has replaced the original screen with a 6' x 16' Cedar Rapids screen, added an 8' x 20' Simplicity wet screen, and added additional conveyors to transport crushed rock to rail cars. The DEQ records indicate that this equipment was installed without obtaining either an applicability determination or a permit modification.

The Department requests your immediate attention be given to these deficiencies and requests that you take the appropriate steps necessary to rectify the problem, including submitting an Emissions Inventory, scheduling Method 9 testing, providing a copy of the daily water record, and submitting a permit modification within 30 days of receipt of this letter. A failure to rectify these deficiencies may result in further enforcement action.

The Department recognizes and appreciates your efforts to remain in compliance. Thank you for your continued diligence in these matters. If you have any questions regarding this matter or require assistance, please contact David Youngman of the Department at (918) 293-1618.

Sincerely,

Rhonda Jeffries, Environmental Programs Manager
Enforcement Section
Air Quality Division

Enclosures: Inspection Report, Dated February 17, 2005

Air Quality Division – Enforcement Section
Enforcement Case Timeline

TEAM Enforcement ID 1546 **Date Assigned** 1/16/04

Company Greenhill Materials **Inspector** David Youngman

Facility Limestone Quarry Rock Crusher **SIC Code** 1422
Catoosa OK 74015
TEAM Facility ID 3421
County Rogers

Type of Discovery	(Y/N)	Date
Inspection	Y	12/30/03
Complaint		
Permit Application		
File Review		
Required Report		
Self-Disclosure		
Referral from EI		
Referral from Permits		
Referral from TRSP		
Referral from EPA		
Other		

More information needed? Yes (No)
Date additional info received

If yes, Day Zero equals Discovery date plus 90 days
OR date info is received, whichever is earlier

Day Zero

If no, Day Zero equals Discovery date plus 45 days (30 days for disclosure)

Day Zero 2/13/04

NOV Target
WL Issued

Potential violations		Description
High Priority Violations	(Y/N)	
General Criteria 1		
General Criteria 2		
General Criteria 3		
General Criteria 4		
General Criteria 5		
General Criteria 6		
General Criteria 7		
General Criteria 8		
General Criteria 9		
General Criteria 10		
Matrix Criteria 1		
Matrix Criteria 2		
Matrix Criteria 3		
Matrix Criteria 4		
Matrix Criteria 5		
Non HPV Violations		
NSPS (40 CFR Part 60)		
NESHAPs (40 CFR Part 61)		
MACT (40 CFR Part 63)		
OAC 252:100	Y	OAC 252:100-7 Permits for Minor Facilities
Permit conditions		

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM: January 15, 2004

TO: Inspection Files

THROUGH: Rhonda Jeffries, Environmental Program Manager

FROM: David Youngman, Environmental Programs Specialist

SUBJECT: Air Quality Compliance Inspection
Greenhill Materials Sherwood Construction
Limestone Quarry
Tulsa County, Oklahoma
Full Compliance Evaluation ID 01292
AIRS # 143-00215
SIC Code 1422

SITE CONTACTS/DEQ INSPECTION TEAM

On December 30, 2003, from 9:30 until 10:20, a full air quality compliance inspection was conducted at the above-referenced facility. David Youngman, an Environmental Programs Specialist with the Department of Environmental Quality, Air Quality Division, conducted the inspection. Mr. John Curtis, Plant Manager, represented the facility throughout the inspection. Credentials were properly presented upon arrival.

PERMIT HISTORY

Greenhill Materials Sherwood Construction operates a synthetic minor limestone rock quarry and crushing plant in Tulsa County. The facility was issued Construction Permit #99-034-C on October 5, 1999, to construct a new portable rock crushing plant. The Operating Permit #99-034-O was then issued on February 8, 2002.

FACILITY AND PROCESS DESCRIPTION

This facility does rock quarrying from virgin earth, rock crushing/sizing, pug mixing, and the necessary rock transporting. The quarried rock is trucked from the blasting area to the crusher area and stockpiled.

The stockpiled quarried rock is dumped into the crusher hopper using a diesel-powered front-end loader. The hopper feeds the primary jaw crusher at the maximum rate of 300 TPH. Conveyors B, C, and D take the crushed rock from the primary crusher to the secondary crusher (all conveyors are in-line conveyors in that they all transport the same amount of rock in series, continuously). Conveyor F takes 300 TPH to the screen. 50

TPH are screened "fall through" which goes to the radial shaker (the device that stock piles the crushed rock by size) via conveyors O, M, and N. There are two additional rock streams from the screen i.e., conveyors J, K, and L take 200 TPH to the "base rock" pile, and the other stream of 50 TPH goes back to the secondary crusher (needs further crushing) via conveyors H and I. These operations produce 300 TPH of stockpiled crushed rock. The front-end loaders then load the delivery trucks from the desired sized rock piles.

On customer demand, some of the crushed rock is run through the pug mixer. The portable Pug Mixer is nothing more than a diesel engine driven mixing operation where crushed rock is dumped into a hopper by a front-end loader. The rock is then conveyed to the mixer that contains the required amount of water. The purpose for this operation is to meet customer moisture specifications.

The rock crusher is designed to be "road portable" i.e., specific width and length after break down. In order for the crusher unit to meet the operational and road requirements, an unusual number of conveyors are necessary.

The facility operates an estimated 2,500 hours/year, and produces an estimated 750,000 TPY of crushed limestone. The pug mixer processes an estimated 500,000 TPY of the previously crushed rock.

The fuel for the diesel engines is stored in a 10,000 gallon, bottom fill tank located on-site.

EMISSIONS/SOURCE CLASSIFICATION

The facility is a synthetic minor source for PM10. The facility has failed to file an Emissions Inventory for 2002; the 2003 Emissions Inventory is not due until March 1, 2004.

APPLICABLE REGULATIONS AND RULES

OAC 252:100-1	General Provisions
OAC 252:100-3	Air Quality Standards and Increments
OAC 252:100-5	Registration, Emission Inventory and Annual Operating Fees
OAC 252:100-7	Permits for Minor Facilities
OAC 252:100-9	Excess Emission and Reporting Requirements
OAC 252:100-13	Open Burning
OAC 252:100-19	Control of Emission of Particulate Matter
OAC 252:100-25	Smoke, Visible Emissions, and Particulates
OAC 252:100-29	Control of Fugitive Dust
OAC 252:100-43	Sampling and Testing Methods

OAC 252:100-45 Monitoring of Emissions

ANNUAL COMPLIANCE CERTIFICATION
The facility does not have a TV permit and is not required to file an ACC.

COMPLIANCE HISTORY
The Facility has not had any previous air quality enforcement issues.

EXCESS EMISSIONS
The facility has not reported any occurrences of excess emissions.

SPECIFIC CONDITIONS/RECORD INSPECTION
1. Points of emission and emission limitations:

Equipment Activity[1]	Emissions		NSPS Applicable
	lb/hr	TPY	Yes/No
Feeder	0.005	0.006	Y
Jaw Crusher	0.14	0.18	Y
Impact Crusher	0.14	0.18	Y
Screen	0.45	0.56	Y
13 Conveyors	5.47	6.89	Y
Radial Stacker	0.21	0.26	Y
Radial Stacker	0.21	0.26	Y
Fugitives	31.35	39.20	N

(1) This includes the rock crusher and the pug mixer.

Diesel Engine Data	Bhp	Uncontrolled Emissions									
		NO_x		VOC		CO		SO_2		PM_{10}	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
J.Deere/ 4039T	95	1.58	1.97	0.02	0.02	0.06	0.07	0.32	0.40	0.64	0.80

The facility has not filed an emissions inventory, therefore it could not be determined if the facility is operating in compliance with this specific condition.

2. The permittee is authorized to operate the rock crusher at process weight rates up to but not to exceed 300 TPH ("working day" average) and 750,000 TPY.

The crusher production from January 1, 2003 to November 30, 2003, was 143,920 tons. The hourly average was 248.18 tons, indicating compliance with this specific condition.

3 The permittee is authorized to operate the pug mixer at process weight rates up to but not to exceed 300 TPH ("working day" average) and 500,000 TPY.

The pug mixer production from January 1, 2003 to November 30, 2003, was 58,940 tons. The hourly average was 101.62 tons, indicating compliance with this specific condition.

4. The permittee shall be authorized to operate this facility continuously (24 hours per day, every day of the year).

There is no compliance determination required for this specific condition.

5. Equipment/activities listed in Specific Condition #1 subject to NSPS Subpart OOO shall comply with the following opacity standards:

Hopper loading:	10 %
Primary crusher:	15 %
Second crusher:	15%
Screen:	10 %
Belt Conveyors:	10 %
Radial Stackers:	10 %

The crusher was not operating during the inspection; therefore no compliance determination could be made.

6. The permittee shall notify the Agency in writing 5 working days before beginning the 2002 construction season. The permittee shall conduct opacity testing by Reference Method 9 for the primary crusher, pug mixer, each screen, and each transfer point of the conveyors (all as near as practical to equipment design capacity). This testing shall be finalized within 30 days after the beginning of the year 2002 construction season. The testing results shall be submitted to Air Quality within 10 working days after the required testing is completed as part of conditions of this operating permit.

The results of the testing required by this specific condition could not be located in the DEQ files.

7. The diesel engine shall only use diesel fuel with a maximum sulfur content of 0.6%w.

On January 5, 2004, the facility provided some records requested during the inspection. Along with the information submitted, Mr. Curtis included the statement that a certificate of sulfur content would be forwarded to the inspector as soon as Greenhill Materials received it from the supplier. As of January 15, 2004, the facility has not provided a copy of the sulfur content of the diesel fuel, more information is needed to determine compliance.

8. Reasonable precautions shall be taken to minimize fugitive dust emissions from loading and unloading operations, roads, and stockpiles. These precautions shall include, but not be limited to:

a) Use of water or chemicals on roads, stockpiles, and materials during transfer operations.
b) Application of other coatings or coverings to substances susceptible to becoming air-borne or wind-borne.
c) Covering or wetting material in trucks.
d) Planting and maintaining vegetation coverings or windbreaks.
e) Locate stockpiles as to provide minimum exposure to high winds and avoid open spaces in line with neighboring homes and businesses.
f) All crusher spray bars should be fully operational when crusher is operating

The facility maintains a water truck and the roads appeared to be wet during the inspection, indicating compliance with this specific condition.

9. The permittee may relocate any portable sources covered under this permit by obtaining a relocation permit in accordance with OAC 252:100-7-17 prior to relocating the portable source to another site. Relocating of such a source without a relocation permit shall void this operating permit for that source and subject the new facility to stationary source permit requirements.

The facility has not relocated any of the equipment listed in this permit, indicating compliance with this specific condition.

10. An engine serial number or other acceptable form of permanent (non-removable) identification shall be on the engine.

The engine had a serial plate attached, indicating compliance with this specific condition.

11. Replacement (including temporary periods of up to six months for maintenance, etc.) of the internal combustion engine shown in this permit with an engine of lesser or equal emissions of each pollutant is authorized under the following conditions:

a. The permittee shall notify AQD in writing not later than 7 days in advance of the startup of replacement engines/turbines. Said notice shall identify the equipment removed and shall include the new engine/turbine make, model, and horsepower; date of the change, and any change in emissions.

b. The emissions limitations on any replacement engine shall not exceed the PPH rates of NOx and CO shown in SC 6.

The facility has not replaced any engines, indicating compliance with this specific condition.

12. The permittee shall keep records of operations as listed below. These records shall be retained on location or at a local field office for a period of at least two years following dates of recording, and shall be made available to regulatory personnel upon request.

(a) Throughput of the crusher (daily and 12 rolling).

The facility provided the crusher throughput from January 1, 2003 through November 30, 2003. The facility also provided weekly totals for the month of November but failed to provide daily records (Attachment A). More information is needed to determine compliance.

(b) Throughput of the pug mixer (daily and 12 rolling).

The facility provided the pug mixer throughput from January 1, 2003 through November 30, 2003, but failed to provide daily records (Attachment A). More information is needed to determine compliance.

(c) Hours of operation (daily and 12 rolling)

The facility provided the hours of operation from January 1, 2003 through November 30, 2003, but failed to provide daily records (Attachment A). More information is needed to determine compliance.

(d) Certification of sulfur content for each fuel delivery.

On January 5, 2004, the facility provided some records requested during the inspection. Along with the information submitted, Mr. Curtis included the statement that a certificate of sulfur content would be forwarded to the inspector as soon as Greenhill Materials received it from the supplier. As of January 15, 2004, the facility has not provided a copy of the sulfur content of the diesel fuel, indicating a violation of this condition.

(e) Daily use of water used for PM control.

The facility has not kept daily records for water use. The facility estimates that between 2 million and 2.5 million gallons of water was used for dust control, but this was not a record of daily use, indicating a violation of this condition (Attachment A).

FIELD INSPECTION

A physical inspection was made inside and outside the facility to further document the compliance status of the facility with federal and state air quality regulations as well as permit #99-034-O. Upon arrival at the facility the inspector introduced himself to Mr. John Curtis, Plant Manager, who explained that the facility was loading haul trucks but not operating the crushing plant during the holidays. Mr. Curtis proceeded to escort the inspector on a tour of the facility, including the feeder, jaw crusher, impact crusher, screen, conveyors, and radial stackers. Mr. Curtis then pointed out the wash facility that was installed three to four months prior to the inspection. The inspector then requested the records required by the permit. These included the January 1, 2003 through November 30, 2003, total throughput of the crusher, pug mixer, and the hours of operation. Additionally, the November 2003 daily records of the crusher throughput, pug mixer throughput, hours of operation and water usage for dust control were requested. Finally, the certification of the sulfur content for each fuel delivery was requested. Mr. Curtis

explained that the facility had not been recording the daily use of water and asked if he could have a few days to gather the records because the majority of the personnel were on vacation. Mr. Curtis and the inspector agreed to a record due date of January 8, 2004. When questioned about the facility not filing an Emissions Inventory, Mr. Curtis stated that Daryl Worrley would need to be contacted. The inspection concluded at 10:20.

SUMMARY

Greenhill Materials Sherwood Construction operates a rock quarry and crushing plant in Tulsa County. The facility has failed to file an annual Emissions Inventory for 2002, indicating a violation of OAC 100:252-5. Because of a lack of emissions data more information is required to determine compliance with Specific Condition 1. The testing results required for Specific Condition 6 could not be located in the DEQ facility files; therefore more information is needed to determine compliance. The facility is waiting on the certification for the sulfur content of the diesel fuel, indicating a violation of Specific Condition 12 (d). More information is needed to determine compliance with Specific Condition 7. The facility failed to provide the daily records of the crusher throughput, pug mixer throughput, and hours of operation; therefore, more information is needed to determine compliance with Specific Condition 12 (a), (b) and (c). Mr. Curtis stated that the facility did not record the daily usage of water to control particulate matter, indicating a violation of Specific Condition 12 (e). Finally, the facility added a new wash facility to the crushing plant without a permit modification, indicating a violation of 252:100-8-5 (c).

ATTACHMENTS

A- Facility Records Provided on January 5, 2004

ATTACHMENT A – FACILITY RECORDS PROVIDED ON JANUARY 5, 2004

greenhill materials

Date: 1/5/04

To: David Youngman, ODEQ

From: John Curtis

RE: 29 Dec 03 Inspection

David-

To follow up your visit to our operation, we supply the following requested information:

Crusher Output - For the calendar year, through the end of November 03, total crusher output = 143,920 tons. For the specific month of November 03, the total was 12,400 tons.

Pugmill output for the calendar year through November = 58,940 tons.

Hours of operation = crusher hours thru Nov = 580

November 03 crusher = 76 hours

Week 11/4 = 39 hours

Week 11/11 = 19 hours

Week 11/18 = 18 hours

Weeks 11/25 & 11/30 = 0

Water used for dust control: we estimate the annual use on haul roads and staging areas to be between 2 million and 2.5 million gallons. That is 75 watering days @ 4 tanker loads per day.

A certificate of sulfur content for fuel will be forwarded to you as soon as we receive it from the supplier

Please let us know what other information we can provide. - JC

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM: February 17, 2005

TO: Inspection Files

THROUGH: Rhonda Jeffries, Environmental Program Manager

FROM: David Youngman, Environmental Programs Specialist

SUBJECT: Air Quality Compliance Inspection
Greenhill Materials Sherwood Construction
Limestone Quarry
Tulsa County, Oklahoma
Full Compliance Evaluation ID 02017
AIRS ID 143-00215
SIC Code 1422

SITE CONTACTS/DEQ INSPECTION TEAM

On February 4, 2005, from 10:05 until 11:15, a full air quality compliance inspection was conducted at the above-referenced facility. Brandie Carson and David Youngman, Environmental Programs Specialist with the Oklahoma Department of Environmental Quality, Air Quality Division, conducted the inspection. Credentials were properly presented upon arrival. Shawn Roberts, Plant Manager, represented the facility throughout the inspection. Daryl Worley represented the facility during phone conversations after the inspection.

PERMIT HISTORY

Greenhill Materials Sherwood Construction operates a synthetic minor limestone rock quarry and crushing plant in Tulsa County. The facility was issued Construction Permit #99-034-C on October 5, 1999, to construct a new portable rock crushing plant. The Operating Permit #99-034-O was then issued on February 8, 2002.

FACILITY AND PROCESS DESCRIPTION

This facility does rock quarrying from virgin earth, rock crushing/sizing, pug mixing, and the necessary rock transporting. The quarried rock is trucked from the blasting area to the crusher area and stockpiled.

The stockpiled quarried rock is dumped into the crusher hopper using a diesel-powered front-end loader. The hopper feeds the primary impact crusher at the maximum rate of 300 TPH. Conveyors B, C, and D take the crushed rock from the primary crusher to the

secondary crusher (all conveyors are in-line conveyors in that they all transport the same amount of rock in series, continuously). Conveyor F takes 300 TPH to the screen. 50 TPH are screened "fall through" which goes to the radial shaker (the device that stock piles the crushed rock by size) via conveyors O, M, and N. There are two additional rock streams from the screen i.e., conveyors J, K, and L take 200 TPH to the "base rock" pile, and the other stream of 50 TPH goes back to the secondary crusher (needs further crushing) via conveyors H and I. These operations produce 300 TPH of stockpiled crushed rock. The front-end loaders then load the delivery trucks from the desired sized rock piles. The facility added an 8' x 20' Simplicity wet screen in 2001, which follows the secondary crusher in the sequence. Additionally, the facility replaced the original screen with a 6' x 16' screen.

In late 2002, the facility replaced the portable Pug Mixer, which utilized the John Deer diesel engine, with permanent Davis Electric Pug Mill. On customer demand, some of the crushed rock is run through the pug mixer. The rock is then conveyed to the mixer that contains the required amount of water. The purpose for this operation is to meet customer moisture specifications.

The rock crusher is designed to be "road portable" i.e., specific width and length after break down. In order for the crusher unit to meet the operational and road requirements, an unusual number of conveyors are necessary. In addition to the conveyors listed in the permit, the facility built a conveyor system to the rail tracks to allow for the loading of rail cars.

The facility operates an estimated 2,500 hours/year, and produces an estimated 750,000 TPY of crushed limestone. The pug mixer processes an estimated 500,000 TPY of the previously crushed rock.

The fuel for the diesel engines is stored in a 10,000 gallon, bottom fill tank located on-site.

EMISSIONS/SOURCE CLASSIFICATION

Greenhill Materials is a synthetic minor source for PM. The facility has never filed an Annual Emissions Inventory.

APPLICABLE REGULATIONS AND RULES

OAC 252:100-1	General Provisions
OAC 252:100-3	Air Quality Standards and Increments
OAC 252:100-5	Registration, Emission Inventory and Annual Operating Fees
OAC 252:100-7	Permits for Minor Facilities
OAC 252:100-9	Excess Emission and Reporting Requirements
OAC 252:100-13	Open Burning
OAC 252:100-19	Control of Emissions of Particulate Matter
OAC 252:100-25	Smoke, Visible Emissions, and Particulates
OAC 252:100-29	Control of Fugitive Dust

OAC 252:100-31	Control of Emission of Sulfur Compounds
OAC 252:100-37	Control of Emission of Volatile Organic Compounds (VOCs)
OAC 252:100-43	Sampling and Testing Methods
OAC 252:100-45	Monitoring of Emissions

ANNUAL COMPLIANCE CERTIFICATION
The facility does not have a TV permit and is not required to file an ACC.

COMPLIANCE HISTORY
The Facility has not had any previous air quality formal enforcement issues.

EXCESS EMISSIONS
The facility has not reported any excess emissions.

SPECIFIC CONDITIONS/RECORD INSPECTION
1. Points of emission and emission limitations:

Equipment Activity[1]	Emissions		NSPS Applicable
	lb/hr	TPY	Yes/No
Feeder	0.005	0.006	Y
Jaw Crusher	0.14	0.18	Y
Impact Crusher	0.14	0.18	Y
Screen	0.45	0.56	Y
13 Conveyors	5.47	6.89	Y
Radial Stacker	0.21	0.26	Y
Radial Stacker	0.21	0.26	Y
Fugitives	31.35	39.20	N

(1) This includes the rock crusher and the pug mixer.

Diesel Engine Data	Bhp	Uncontrolled Emissions									
		NO_x		VOC		CO		SO_2		PM_{10}	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
J.Deere/ 4039T	95	1.58	1.97	0.02	0.02	0.06	0.07	0.32	0.40	0.64	0.80

The facility has not filed an emissions inventory as required by OAC 252:100-5, therefore it could not be determined if the facility is operating in compliance with this specific condition. The PorTec Pug Mixer was removed from the facility.

2. The permittee is authorized to operate the rock crusher at process weight rates up to but not to exceed 300 TPH ("working day" average) and 750,000 TPY.

The crusher production from January 1, 2004 to December 31, 2004, was 466,187 tons, indicating compliance with this specific condition (Attachment A).

3. The permittee is authorized to operate the pug mixer at process weight rates up to but not to exceed 300 TPH ("working day" average) and 500,000 TPY.

The pug mixer production from January 1, 2004 to December 31, 2004, was 9,943.54 tons, indicating compliance with this specific condition (Attachment B).

4. The permittee shall be authorized to operate this facility continuously (24 hours per day, every day of the year).

There is no compliance determination required for this specific condition.

5. Equipment/activities listed in Specific Condition #1 subject to NSPS Subpart OOO shall comply with the following opacity standards:

Hopper loading:	10 %
Primary crusher:	15 %
Second crusher:	15%
Screen:	10 %
Belt Conveyors:	10 %
Radial Stackers:	10 %

During onsite inspection, some opacity was observed at the Primary Crusher but subsided before a Method 9 could be conducted.

6. The permittee shall notify the Agency in writing 5 working days before beginning the 2002 construction season. The permittee shall conduct opacity testing by Reference Method 9 for the primary crusher, pug mixer, each screen, and each transfer point of the conveyors (all as near as practical to equipment design capacity). This testing shall be finalized within 30 days after the beginning of the year 2002 construction season. The testing results shall be submitted to Air Quality within 10 working days after the required testing is completed as part of conditions of this operating permit.

The facility has not performed this test. Mr. Daryl Worley stated that the company is scheduling the Reference Method 9 testing and will inform the DEQ when the dates are confirmed.

7. The diesel engine shall only use diesel fuel with a maximum sulfur content of 0.6%w.

The facility provided a copy of the most recent delivery of diesel fuel. The Bill of Lading (Attachment C) states that the sulfur content is equal to or less than 0.05% by weight, indicating compliance with this specific condition.

8. Reasonable precautions shall be taken to minimize fugitive dust emissions from loading and unloading operations, roads, and stockpiles. These precautions shall include, but not be limited to:

a) Use of water or chemicals on roads, stockpiles, and materials during transfer operations.
b) Application of other coatings or coverings to substances susceptible to becoming air-borne or wind-borne.
c) Covering or wetting material in trucks.
d) Planting and maintaining vegetation coverings or windbreaks.
e) Locate stockpiles as to provide minimum exposure to high winds and avoid open spaces in line with neighboring homes and businesses.
f) All crusher spray bars should be fully operational when crusher is operating

The facility maintains a water truck and the roads appeared to be wet during the inspection, indicating compliance with this specific condition.

9. The permittee may relocate any portable sources covered under this permit by obtaining a relocation permit in accordance with OAC 252:100-7-17 prior to relocating the portable source to another site. Relocating of such a source without a relocation permit shall void this operating permit for that source and subject the new facility to stationary source permit requirements.

The facility removed the old screen unit and the PorTec Pug Mixer; a relocation permit was not obtained for either piece of equipment.

10. An engine serial number or other acceptable form of permanent (non-removable) identification shall be on the engine.

The facility has removed the original PorTec Pug Mixer, but Mr. Roberts stated that the Primary Crusher continued to be powered by the Kolberg 3850. The serial number on the engine was not verified during the inspection do to the danger of the loading of the primary crusher.

11. Replacement (including temporary periods of up to six months for maintenance, etc.) of the internal combustion engine shown in this permit with an engine of lesser or equal emissions of each pollutant is authorized under the following conditions:

a. The permittee shall notify AQD in writing not later than 7 days in advance of the startup of replacement engines/turbines. Said notice shall identify the equipment removed and shall include the new engine/turbine make, model, and horsepower; date of the change, and any change in emissions.

b. The emissions limitations on any replacement engine shall not exceed the PPH rates of NOx and CO shown in SC 6.

The facility has not replaced any internal combustion engines, indicating compliance with this specific condition.

12. The permittee shall keep records of operations as listed below. These records shall be retained on location or at a local field office for a period of at least two years following dates of recording, and shall be made available to regulatory personnel upon request.

(a) Throughput of the crusher (daily and 12 rolling).

The facility provided the crusher throughput from January 1, 2004 through December 31, 2004, which included weekly and daily totals, indicating compliance with this condition (Attachment A).

(b) Throughput of the pug mixer (daily and 12 rolling).

The facility provided the pug mixer throughput from January 1, 2003 through November 30, 2003, which included weekly and daily totals, indicating compliance with this condition (Attachment B).

(c) Hours of operation (daily and 12 rolling)

Mr. Roberts stated that the total crushing hours for 2004 were 1,206 hours.

(d) Certification of sulfur content for each fuel delivery.

The facility provided a copy of the most recent delivery of diesel fuel. The Bill of Lading (Attachment C) states that the sulfur content is equal to or less than 0.05% by weight, indicating compliance with this condition.

(e) Daily use of water used for PM control.

The facility provided records of monthly water usage reports (Attachment D), but has not kept daily records for water use. Daryl Worley stated that facility personnel were creating a document to record this data in the future. Mr. Worley stated that a copy of the document would be provided to the DEQ when completed.

FIELD INSPECTION

A physical inspection was made inside and outside the facility to further document the compliance status of the facility with federal and state air quality regulations along with Permit No. 99-034-O. Upon arrival at the facility the inspectors presented proper credentials and were introduced to Mr. Shawn Roberts, the plant manager. After explaining the purpose of the inspection, Mr. Roberts escorted the inspectors on a tour of the facility. After pointing out the different equipment, Mr. Roberts stated that the facility replaced the original screen with a 6' x 16' Cedar Rapids screen, added an 8' x 20' Simplicity wet screen, and added a new conveyor to transport crushed rock to rail cars. While driving around the facility some opacity was noticed at the primary crusher but quickly subsided before a Method 9 could be conducted. The facility roads were wet

and no fugitive dust was observed. After touring the facility, the inspection party proceeded to Mr. Roberts office were the inspectors requested the records required by the permit. Mr. Roberts was able to provide the throughput of the crusher, pug mixer, and the hours of operation. He stated that Daryl Worley at the Sherwood offices would have the additional records. The inspection concluded at 11:15.

SUMMARY

The facility has failed to file an Annual Emissions Inventory, indicating a violation of OAC 252:100-5. Because the facility has not submitted an Emission Inventory, compliance with Specific Condition 1 could not be determined. The facility did not conduct Reference Method 9 testing, indicating a violation of Specific Condition 6. The original permitted screen and the PorTec Pug Mixer were both removed without a relocation permit, indicating that this equipment may be operating elsewhere without a permit. The facility has not been maintaining the daily use of water, indicating a violation of Specific Condition 12(e). Additionally, Mr. Roberts stated that the facility has replaced the original screen with a 6' x 16' Cedar Rapids screen, added an 8' x 20' Simplicity wet screen, and added a new conveyor to transport crushed rock to rail cars. This equipment was added without first obtaining a permit modification or applicability determination.

ATTACHMENTS

A – Production of Crushed Rock
B – Pug Mixer Production
C – Sulfur Content of the Diesel Fuel
D – Monthly Use of Water to Control PM

ATTACHMENT A – PRODUCTION OF CRUSHED ROCK

GREENHILL MATERIALS Crushed JANUARY 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1 1/2"CR					TOTALS
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY	1/1									
FRIDAY	1/2									
Totals for Week		0	0	0	0	0	0	0	0	0

		Man Sand	3/8" Chips	#57	1 1/2"CR					
MONDAY	1/5									
TUESDAY	1/6									
WEDNESDAY	1/7									
THURSDAY	1/8	214	218	534	1309					2275
FRIDAY	1/9	303	273	665	1875					3116
Totals for Week		517	491	1199	3184	0	0	0	0	5391

DAY	DATE	Man Sand	3/8" Chips	#57	1 1/2"CR					
MONDAY	1/12	189	168	410	1080					1847
TUESDAY	1/13	402	369	823	2059					3653
WEDNESDAY	1/14	331	317	699	1774					3121
THURSDAY	1/15	286	271	560	1640					2757
FRIDAY	1/16	390	300	580	1667					2937
Totals for Week		1598	1425	3072	8220	0	0	0	0	14315

DAY	DATE	Man Sand	5/8"Chips	#57	1 1/2"CR	1"M				
MONDAY										
TUESDAY	1/20	325	452	475	1660					2912
WEDNESDAY	1/21	225	320	330	1100					1975
THURSDAY	1/22	232	341	340	1120					2033
FRIDAY	1/23	310	442		1550	461				2763
Totals for Week		1092	1555	1145	5430	461	0	0	0	9683

DAY	DATE	Man Sand	5/8" Chips	#57	1 1/2"CR	1"M	3"CR	1"CR		
MONDAY	1/26	280	230			247	2500			3257
TUESDAY	1/27	225	184			210	2120			2739
WEDNESDAY	1/28	266	451			473		1127		2317
THURSDAY	1/29	297	473			496		1246		2612
FRIDAY	1/30									
Totals for Week		1068	1338	0	0	1179	2120	2373	0	10825

	Man Sand	3/8" Chips	#57	1 1/2"CR	2"RRB	5/8"Chips	1"CR	5/8" Chips	3"CR
Totals by Product	4275	1916	5416	16834	1640	1555	2373	1555	2120

1"M
1640

Total for Jan. 2004: 40214

Total For the Year-2004: 40214

Comments: _____

GREENHILL MATERIAL

FEBRUARY 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR					TOTALS
MONDAY	2/2	168	107	377	1108					1760
TUESDAY	2/3	335	172	702	1727					2936
WEDNESDAY	2/4	296	164	614	913					1987
THURSDAY	2/5									
FRIDAY	2/6									
Totals for Week		799	443	1693	3748	0	0	0	0	6683

		Man Sand	3/8" Chips	#57	1"CR					
MONDAY	2/9	329	246	510	783					1868
TUESDAY	2/10	462	342	835	1677					3316
WEDNESDAY	2/11	429	295	792	1342					2858
THURSDAY	2/12									
FRIDAY	2/13									
Totals for Week		1220	883	2137	3802	0	0	0	0	8042

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR					
MONDAY	2/16	440	325	899	1680					3344
TUESDAY	2/17									
WEDNESDAY	2/18	562	398	1093	1539					3592
THURSDAY	2/19	402	252	660	1004					2318
FRIDAY	2/20	603	425	1020	1446					3494
SATURDAY	2/21	312	227	560	841					1940
Totals for Week		2191	1529	3893	5671	0	0	0	0	14688
DAY	DATE	Man Sand	3/8"Chips	#57	3"CR	1"CR				
MONDAY*	2/23									
TUESDAY*	2/24									
WEDNESDAY*	2/25									
THURSDAY	2/26	251	162	400	1727					2540
FRIDAY	2/27	251	192	402	2750					3595
SATURDAY	2/21	652	415	1120		1670				3857
Totals for Week		1154	769	1922	4477	1670	0	0	0	9992
DAY	DATE	Man Sand	5/8" Chips	#57	1 1/2"CR	1"M	3"CR	1"CR		
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY										
FRIDAY										
Totals for Week		0	0	0	0	0	0	0	0	0

	Man Sand	3/8" Chips	#57	1 1/2"CR	2"RRB	5/8"Chips	1"CR	Screenings	3"CR
Totals by Product	5364	3624	9645				14891		4477
					1"M				

Total for Feb. 2004: **39405**

Total For the Year-2004: **79619**

Comments: *Crusher down.

GREENHILL MATERIALS

MARCH 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR				TOTALS
MONDAY	3/1	441	297	689	1147					2574
TUESDAY	3/2	695	533	1258		2452				4938
WEDNESDAY	3/3	394	288	715		1189				2586
THURSDAY	3/4									
FRIDAY	3/5	384	254	618		982				2238
SATURDAY	3/6	622	386	980		1407				3395
Totals for Week		**2536**	**1758**	**4260**	**1147**	**6030**	**0**	**0**	**0**	**15731**
DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR				
MONDAY	3/8	305	188	456		814				1763
TUESDAY	3/9	458	311	794		209				1772
WEDNESDAY	3/10	254	189	536		978				1957
THURSDAY	3/11	428	341	907		1569				3245
FRIDAY	3/12	367	359	968		1765				3459
SATURDAY	3/13									
Totals for Week		**1812**	**1388**	**3661**	**0**	**5335**	**0**	**0**	**0**	**12196**
DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen			
MONDAY	3/15	189	175	457		843				1664
TUESDAY	3/16	380	298	988			522			2188
WEDNESDAY	3/17	156	49	151			76			432
THURSDAY	3/18									0
FRIDAY	3/19									0
SATURDAY	3/20									0
Totals for Week		**725**	**522**	**1596**	**0**	**843**	**598**	**0**	**0**	**4284**
DAY	DATE	Man Sand	3/8"Chips	#57	3"CR	1"CR	Screen	5/8"Chips		
MONDAY	3/22	349					460	995		1804
TUESDAY	3/23	491					564	1069		2124
WEDNESDAY	3/24	479					489	1022		1990
THURSDAY	3/25	540					594	1208		2342
FRIDAY	3/26	618					584	1192		2394
SATURDAY	3/27	579					565	1156		2300
Totals for Week		**3056**	**0**	**0**	**0**	**0**	**3256**	**6642**	**0**	**12954**
DAY	DATE	Man Sand	3/8"Chips	#57	3"CR	1"CR	Screen	5/8"Chips		
MONDAY	3/29	36					38	70		144
TUESDAY	3/30	170	348	957			384			1859
WEDNESDAY	3/31	288	487	1154			554			2463
THURSDAY										
FRIDAY										0
SATURDAY										0
Totals for Week		**494**	**815**	**2111**	**0**	**0**	**976**	**70**	**0**	**4466**
		Man Sand	3/8" Chips	5/8"Chips	#57	1"M	1"CR	1 1/2"CR	3"CR	Screen
Totals by Product		**8623**	**4483**	**6712**	**11628**		**1147**	**12208**		**4830**

Total for March 2004: **49631**

Total For the Year-2004: **129250**

Comments: _____

GREENHILL MATERIALS APRIL 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen			TOTALS
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY	4/1	262	654	1721			846			3483
FRIDAY	4/2	288	638	1533			718			3177
SATURDAY	4/3									
Totals for Week		**550**	**1292**	**3254**	**0**	**0**	**1564**	**0**	**0**	**8660**
DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen			
MONDAY	4/5	335	658	1418			665			3076
TUESDAY	4/6	484	856	1699			740			3779
WEDNESDAY	4/7	381	617	1200			600			2798
THURSDAY	4/8	387	734	1503			660			3284
FRIDAY	4/9	397	736	1388			708			3229
SATURDAY	4/10									
Totals for Week		**1984**	**3601**	**7208**	**0**	**0**	**3373**	**0**	**0**	**16168**
DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen			
MONDAY	4/12	353	592	1192			598			2735
TUESDAY	4/13	416	764	1462			671			3313
WEDNESDAY	4/14	350	656	1293			629			2928
THURSDAY	4/15	402	611	1207			596			2816
FRIDAY	4/16									
SATURDAY	4/17									
Totals for Week		**1521**	**2623**	**5154**	**0**	**0**	**2494**	**0**	**0**	**11792**
DAY	DATE	Man Sand	3/8"Chips	3/4"M	3"CR	1"CR	Screen	5/8"Chips		
MONDAY	4/19									
TUESDAY	4/20	376		290			599	1483		2748
WEDNESDAY	4/21	265		140			387	953		1745
THURSDAY	4/22	299		109			356	955		1719
FRIDAY	4/23									
SATURDAY	4/24									
Totals for Week		**940**	**0**	**539**	**0**	**0**	**1342**	**3391**	**0**	**6212**
DAY	DATE	Man Sand	3/8"Chips	3/4"M	1 1/2"CR	1"M	Screen	5/8"Chips		
MONDAY	4/26	301		40			447	948		1736
TUESDAY	4/27	294		97			509	1122		2022
WEDNESDAY	4/28	330		106			538	1191		2165
THURSDAY	4/29	309		123			432	1058		1922
FRIDAY	4/30	147		79			276	604		1106
SATURDAY										0
Totals for Week		**1381**	**0**	**445**	**0**	**0**	**2202**	**4923**	**0**	**8951**
		Man Sand	3/8" Chips	5/8"Chips	#57	3/4"M	1"CR	1 1/2"CR	3"CR	Screen
Totals by Product		**6376**	**7516**	**8314**	**15616**	**984**	**0**	**0**		**10975**

Total for April 2004: **49781**

Total For the Year-2004: **179031**

Comments: _____

GREENHILL MATERIAL

MAY 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR		3"CR		TOTALS
MONDAY	5/3	282	554	947	1311					3094
TUESDAY	5/4	311	547	869	1043					2770
WEDNESDAY	5/5	171	281	409	204			2524		3589
THURSDAY	5/6	315	479	705		1717				3216
FRIDAY	5/7									
SATURDAY	5/8									
Totals for Week		**1079**	**1861**	**2930**	**2558**	**1717**		**2524**		**12669**
DAY	DATE	Man Sand	3/8" Chips	#57		1 1/2"CR				
MONDAY	5/10	191	269	350		905				1715
TUESDAY	5/11	308	394	458		1198				2356
WEDNESDAY	5/12	173	240	257		865				1535
THURSDAY	5/13	253	327	362		1038				1980
FRIDAY	5/14									
SATURDAY	5/15									
Totals for Week		**923**	**1230**	**1427**		**4006**				**7586**
DAY	DATE	Man Sand	3/8" Chips	#57		1 1/2"CR	Screen			
MONDAY	5/17	287	355	392		1020				2034
TUESDAY	5/18	293	425	790			504			2012
WEDNESDAY	5/19	303	450	837			499			2089
THURSDAY	5/20	317	490	915			604			2326
FRIDAY	5/21									
SATURDAY	5/22									
Totals for Week		**1180**	**1720**	**2934**		**1020**	**1607**			**8461**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen			
MONDAY	5/24									
TUESDAY	5/25	471	845	1066			597			2979
WEDNESDAY	5/26	355	638	837			390			2220
THURSDAY	5/27	542	925	1139			692			3298
FRIDAY	5/28									
SATURDAY	5/29									
Totals for Week		**1368**	**2408**	**3042**			**1679**			**8497**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen			
Totals for Week										
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR		
Totals by Product		**4550**	**7219**	**10333**	**2558**	**6743**	**3286**	**2524**		

Total for May 2004: **37213**

Total For the Year-2004: **216244**

Comments: _____

GREENHILL MATERIALS

JUNE 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	Balast	TOTALS
MONDAY										0
TUESDAY	6/1	39	74	85			46			244
WEDNESDAY	6/2	230	446			1432			947	3055
THURSDAY	6/3									
FRIDAY	6/4	298	605				489		1288	2680
SATURDAY	6/5									
Totals for Week		**567**	**1126**	**85**	**0**	**1432**	**535**	**0**	**2235**	**5979**
DAY	DATE	Man Sand	3/8" Chips	#57		1 1/2"CR	Screen		Balast	
MONDAY	6/7	397	766				586		1721	3470
TUESDAY	6/8									0
WEDNESDAY	6/9	462	757	1048			445			2712
THURSDAY	6/10	305	510	693		1028				2536
FRIDAY	6/11									
SATURDAY	6/12									
Totals for Week		**1164**	**2033**	**1741**		**1028**				**8718**
DAY	DATE	Man Sand	3/8" Chips	#57		1 1/2"CR	Screen			
MONDAY	6/14	301	518	642		1093				2554
TUESDAY	6/15	351	617	765		1627				3360
WEDNESDAY	6/16	346	578	842			511			2277
THURSDAY	6/17	540	805	1206			660			3211
FRIDAY	6/18									
SATURDAY	6/19									
Totals for Week		**1538**	**2518**	**3455**		**1093**	**1171**			**11402**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen			
MONDAY	6/21									
TUESDAY	6/22	366	588	751		1235				2940
WEDNESDAY	6/23	434	700	876		1695				3705
THURSDAY	6/24									0
FRIDAY	6/25									
SATURDAY	6/26									
Totals for Week		**800**	**1288**	**1627**		**2930**	**0**			**6645**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen			
	6/28	415	738	894		1640				3687
	6/29	392	714	936			481			2523
	6/30									
Totals for Week		**807**	**1452**	**1830**		**1640**				**6210**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	Balast	
Totals by Product		**4876**	**8416**	**8738**	**0**	**8123**	**1706**	**0**	**2235**	

Total for June 2004: **38954**

Total For the Year-2004: **255198**

Comments: _____

GREENHILL MATERIALS

July : 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	Balast	TOTALS
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY	7/1									
FRIDAY	7/2									
SATURDAY	7/3									
Totals for Week		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
DAY	DATE	Man Sand	3/8" Chips	#57	#67	1 1/2"CR	Screen	3/4"M	1"CR	
MONDAY	7/5									
TUESDAY	7/6	275			720		266	187		1448
WEDNESDAY	7/7	361			923		470	75		1829
THURSDAY	7/8	456			1123		583	32		2194
FRIDAY	7/9	94	151	202					234	681
SATURDAY	7/10									
Totals for Week		**1186**	**151**	**202**	**2766**	**0**	**1319**	**294**	**234**	**6152**
DAY	DATE	Man Sand	3/8" Chips	#57		1 1/2"CR	Screen		1"CR	
MONDAY	7/12									
TUESDAY	7/13									
WEDNESDAY	7/14	330	550	780					815	2475
THURSDAY	7/15									
FRIDAY	7/16									
SATURDAY	7/17									
Totals for Week		**330**	**550**	**780**		**0**	**0**		**815**	**2475**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen			
MONDAY	7/19									
TUESDAY	7/20									
WEDNESDAY	7/21									
THURSDAY	7/22	483	783	1218			600			3084
FRIDAY	7/23	386	744	1290			558			2978
SATURDAY	7/24									
Totals for Week		**869**	**1527**	**2508**		**0**	**1158**			**6062**
DAY	DATE	Man Sand	3/8"Chips	#57	1"CR	1 1/2"CR		3"CR		
MONDAY	7/26	232	362	371				2550		3515
TUESDAY	7/27	469	663	1196	771					3099
WEDNESDAY	7/28	321	450	710		985				2466
THURSDAY	7/29									
FRIDAY	7/30									
SATURDAY	7/31									
Totals for Week		**1022**	**1475**	**2277**		**985**				**9080**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	3/4M	#67
Totals by Product		**3407**	**3703**	**5767**	**1820**	**985**	**2477**	**2550**	**294**	**2766**

Total for June 2004: **23769**

Total For the Year-2004: **278967**

Comments: _____

GREENHILL MATERIALS AUGUST 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	Balast	TOTALS
MONDAY	8/2									
TUESDAY	8/3									
WEDNESDAY	8/4									
THURSDAY	8/5									
FRIDAY	8/6									
SATURDAY	8/7									
Totals for Week		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1"M	1"CR	
MONDAY	8/9									
TUESDAY	8/10									
WEDNESDAY	8/11	340			820	944		616		2720
THURSDAY	8/12	321			883	1236		684		3124
FRIDAY	8/13	375			1008	1502		784		3669
SATURDAY	8/14									
Totals for Week		**1036**	**0**	**0**	**2711**	**3682**	**0**	**2084**	**0**	**9513**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1"M	1"CR	
MONDAY	8/16	35			103	148		51		337
TUESDAY	8/17	333	467	649		1005				2454
WEDNESDAY	8/18	153	228	414		551				1346
THURSDAY	8/19	441	676	1228		1684				4029
FRIDAY	8/20	572	969	1864			727			4132
SATURDAY	8/21									
Totals for Week		**1534**	**2340**	**4155**	**103**	**3388**	**727**	**51**	**0**	**12298**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen	1/4"Buck		
MONDAY	8/23									
TUESDAY	8/24									
WEDNESDAY	8/25	354		1187			535	287		2363
THURSDAY	8/26	476		1823			1258	416		3973
FRIDAY	8/27	385		1263			527	292		2467
SATURDAY	8/28									
Totals for Week		**1215**	**0**	**4273**		**0**	**2320**	**995**		**8803**
DAY	DATE	Man Sand	3/8"Chips	#57	1"CR	1 1/2"CR	2"CR	1/4"Buck		
MONDAY	8/30									
TUESDAY	8/31	456		995			2567	213		4231
WEDNESDAY										
THURSDAY										
FRIDAY										
SATURDAY										
Totals for Week		**456**	**0**	**995**		**0**	**2567**	**213**		**4231**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	1"M	5/8"C
Totals by Product		**4241**	**2340**	**9423**	**0**	**7070**	**5614**	**0**	**2135**	**2814**
						1/4"Buck	2"CR			
						995	**2567**			

Total for August 2004: **34845**

Total For the Year-2004: **313812**

Comments: _____

GREENHILL MATERIALS SEPTEMBER 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	1/4"Buck	Balast	TOTALS
MONDAY										
TUESDAY										
WEDNESDAY	9/1	589		1747	1503			286		4125
THURSDAY	9/2									
FRIDAY	9/3									
SATURDAY	9/4									
Totals for Week		**589**	**0**	**1747**	**1503**	**0**	**0**	**286**	**0**	**4125**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1"M	1"CR	
MONDAY	9/6									
TUESDAY	9/7									
WEDNESDAY	9/8	203			351		241	286		1081
THURSDAY	9/9									
FRIDAY	9/10	456			926	942	571	526		3421
SATURDAY	9/11									
Totals for Week		**659**	**0**	**0**	**1277**	**942**	**812**	**812**	**0**	**4602**
DAY	DATE	Man Sand	1/4"Buck	#57	5/8"C	1 1/2"CR	Screen	1"M	1"CR	
MONDAY	9/13									0
TUESDAY	9/14	482			1045		705	849		3081
WEDNESDAY	9/15	457			1077		722	882		3138
THURSDAY	9/16	315	102	329	504	681	323	403		2657
FRIDAY	9/17	412	396	1218		2661				4687
SATURDAY	9/18									
Totals for Week		**1666**	**498**	**1547**	**2626**	**681**	**1750**	**2134**	**0**	**13563**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen	1/4"Buck		
MONDAY	9/20									
TUESDAY	9/21									
WEDNESDAY	9/22									0
THURSDAY	9/23	144		412		772		130		1458
FRIDAY	9/24	410		1141		1989		356		3896
SATURDAY	9/25									
Totals for Week		**554**	**0**	**1553**		**2761**	**0**	**486**		**5354**
DAY	DATE	Man Sand	3/8"Chips	#57	1"CR	1 1/2"CR	Screen	1/4"Buck		
MONDAY	9/27									
TUESDAY	9/28	445		1485	1440			380		3750
WEDNESDAY	9/29	627		1797			801	469		3694
THURSDAY	9/30	647		1866			779	531		3823
FRIDAY										
SATURDAY										
Totals for Week		**1719**	**0**	**5148**		**0**	**1580**	**1380**		**11267**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	1"M	5/8"C
Totals by Product		**5187**	**498**	**9995**	**1503**	**4384**	**4142**	**0**	**2946**	**3903**
						1/4"Buck	2"CR			
						286	**1580**			

Total for September 2004: **38811**

Total For the Year-2004: **352623**

Comments: _____

GREENHILL MATERIALS

OCTOBER 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	1/4"Buck	Balast	TOTALS
MONDAY										
TUESDAY										
WEDNESDAY										
THURSDAY										
FRIDAY	10/1	406		995		1659		279		3339
SATURDAY	10/2									
Totals for Week		**406**	**0**	**995**	**0**	**1659**	**0**	**279**	**0**	**3339**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1/4"Buck	1"CR	
MONDAY	10/4									
TUESDAY	10/5									
WEDNESDAY	10/6									
THURSDAY	10/7	233		723		1278		215		2449
FRIDAY	10/8	519		1372		2245		395		4531
SATURDAY	10/9									
Totals for Week		**752**	**0**	**2095**	**0**	**3523**	**0**	**610**	**0**	**6980**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1/4"Buck	1"CR	
MONDAY	10/11									
TUESDAY	10/12	449		1074		1754		346		3623
WEDNESDAY	10/13	346		993		1642		346		3327
THURSDAY	10/14	507		965		1576				3048
FRIDAY	10/15	535		1310			412			2257
SATURDAY	10/16									
Totals for Week		**1837**	**0**	**4342**	**0**	**4972**	**412**	**692**	**0**	**12255**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen	1/4"Buck		
MONDAY	10/18									
TUESDAY	10/19									
WEDNESDAY	10/20									
THURSDAY	10/21									0
FRIDAY	10/22									
SATURDAY	10/23									
Totals for Week		**0**	**0**	**0**		**0**	**0**	**0**		**0**
DAY	DATE	Man Sand	3/8"Chips	#57	1"CR	1 1/2"CR	Screen	1/4"Buck		
MONDAY	10/25	829		1857			696			3382
TUESDAY	10/26	484		1055		1531				3070
WEDNESDAY	10/27	657		1284		1856				3797
THURSDAY	10/28	581		1064		1450				3095
FRIDAY	10/29	413		818		1214				2445
SATURDAY	10/30									
Totals for Week		**2964**	**0**	**6078**		**6051**	**696**	**0**		**15789**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	1"M	5/8"C
Totals by Product		**5959**	**0**	**13510**	**0**	**16205**	**1108**	**0**	**0**	**0**
						1/4"Buck	2"CR			
						1581	**0**			

Total for October 2004: **38363**

Total For the Year-2004: **390986**

Comments: _____

GREENHILL MATERIALS

NOVEMBER 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	1/4"Buck	Balast	TOTALS
MONDAY	11/1									
TUESDAY	11/2									
WEDNESDAY	11/3									
THURSDAY	11/4									
FRIDAY	11/5									
SATURDAY	11/6									
Totals for Week		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
DAY	DATE	Man Sand	3/8" Chips	#57	3"CR	1 1/2"CR	Screen	1/4"Buck	1"CR	
MONDAY	11/8	375		853			386			1614
TUESDAY	11/9	219		478	1315		136			2148
WEDNESDAY	11/10	242		805	1602		358			3007
THURSDAY	11/11	715		1718			682			3115
FRIDAY	11/12	530		770		1585				2885
SATURDAY	11/13									
Totals for Week		**2081**	**0**	**4624**	**2917**	**1585**	**1562**	**0**	**0**	**12769**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1/4"Buck	1"CR	
MONDAY	11/15									
TUESDAY	11/16	271		455		937				1663
WEDNESDAY	11/17	588		1019		2111				3718
THURSDAY	11/18									
FRIDAY	11/19	747		1480		649	565			3441
SATURDAY	11/20									
Totals for Week		**1606**	**0**	**2954**	**0**	**3048**	**565**	**0**	**0**	**8822**
DAY	DATE	Man Sand	3/8"Chips	#57		1 1/2"CR	Screen	1/4"Buck		
MONDAY	11/22	482		789		1886				3157
TUESDAY	11/23									
WEDNESDAY	11/24									
THURSDAY	11/25									
FRIDAY	11/26									
SATURDAY	11/27									
Totals for Week		**482**	**0**	**0**		**0**	**0**	**0**		**3157**
DAY	DATE	Man Sand	3/8"Chips	#57	1"CR	1 1/2"CR	Screen	Balast		
MONDAY	11/29	190	323			1614		743		2870
TUESDAY	11/30	60	80			515		252		907
WEDNESDAY										0
THURSDAY										0
FRIDAY										0
SATURDAY										
Totals for Week		**250**	**403**	**0**		**2129**	**0**	**995**		**3777**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	1"M	5/8"C
Totals by Product		**4419**	**403**	**7578**	**0**	**6762**	**2127**	**2917**	**0**	**2917**
						Balast	2"CR			
						995	**0**			

Total for November 2004: **28525**

Total For the Year-2004: **419511**

Comments: _____

GREENHILL MATERIALS

DECEMBER 2004

BELT SCALE READINGS

DAY	DATE	Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	Balast	TOTALS
MONDAY										
TUESDAY										
WEDNESDAY	12/1	323	563				718		1604	3208
THURSDAY	12/2	149	250	101		219		2014		2733
FRIDAY	12/3	188	321	450		1196				2155
SATURDAY	12/4									
Totals for Week		**660**	**1134**	**551**	**0**	**1415**	**718**	**2014**	**1604**	**8096**
DAY	DATE	Man Sand	3/8" Chips	#57	3"CR	1 1/2"CR	Screen	1/4"Buck	1"CR	
MONDAY	12/6	258	439	457		1563				2717
TUESDAY	12/7	261	455	565		943	151			2375
WEDNESDAY	12/8									
THURSDAY	12/9	254	444	558		1165				2421
FRIDAY	12/10	296	511	610		1460				2877
SATURDAY	12/11									
Totals for Week		**1069**	**1849**	**2190**	**0**	**5131**	**151**	**0**	**0**	**10390**
DAY	DATE	Man Sand	3/8" Chips	#57	5/8"C	1 1/2"CR	Screen	1" Marble	1"CR	
MONDAY	12/13	321			819	1853		313		3306
TUESDAY	12/14	375			1002	2366		355		4098
WEDNESDAY	12/15	322			839	1560		285		3006
THURSDAY	12/16	528	609	674		1768				3579
FRIDAY	12/17	550	696	1282			745			3273
SATURDAY	12/18									
Totals for Week		**2096**	**1305**	**1956**	**2660**	**7547**	**745**	**953**	**0**	**17262**
DAY	DATE	Man Sand	3/8"Chips	#57	3"CR	1 1/2"CR	Screen	1/4"Buck		
MONDAY	12/20	551	693	1193			578			3015
TUESDAY	12/21	237	270	526	2340					3373
WEDNESDAY	12/22	126	113	366		994				1599
THURSDAY	12/23	387	161	652		1741				2941
FRIDAY	12/24									
SATURDAY	12/25									
Totals for Week		**1301**	**544**	**1544**	**2340**	**2735**	**578**	**0**		**10928**
DAY	DATE	Man Sand	3/8"Chips	#57	1"CR	1 1/2"CR	Screen	1/4"Buck		
MONDAY	12/27									
TUESDAY	12/28									
WEDNESDAY	12/29									
THURSDAY	12/30									
FRIDAY	12/31									
SATURDAY										
Totals for Week		**0**	**0**	**0**		**0**	**0**	**0**		**0**
		Man Sand	3/8" Chips	#57	1"CR	1 1/2"CR	Screen	3"CR	1"M	5/8"C
Totals by Product		**5126**	**4832**	**6241**	**0**	**16828**	**2192**	**4354**	**953**	**2660**
						Balast	2"CR			
						1604	**0**			

Total for December 2004: **46676**

Total For the Year-2004: **466187**

Comments: _____

ATTACHMENT B – PUG MIXER PRODUCTION

SALES TONNAGE/INCOME GREENHILL MATERIALS APRIL 2004

	5/8"C-Gabion		1" Marble-3/4"M		#57 Rock		Balast/2"M		Rip Rap		Agg BaseTBSC	
Date	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$
1-Apr					421.80	2459.09						
2-Apr			45.32	272.86	373.77	2162.73						
3-Apr												
5-Apr			39.51	251.28	750.44	4379.22						
6-Apr			14.40	167.65	692.28	4116.80						
7-Apr			13.50	85.86	315.63	1840.12						
8-Apr					139.51	764.85						
9-Apr			77.50	461.18	289.97	1761.23	14.39	80.08				
10-Apr												
12-Apr			15.75	100.17	448.11	2701.78						
13-Apr			14.43	91.77	377.62	2311.29	14.89	82.86				
14-Apr					449.63	2670.03						
15-Apr					675.61	3112.77					94.79	427.03
16-Apr					939.35	5499.58	98.42	547.71				
17-Apr					184.71	1076.86	60.90	338.91				
19-Apr					353.11	1965.27						
20-Apr			113.18	719.82	472.25	2753.22						
21-Apr					330.60	1927.40						
22-Apr			28.57	181.71			14.34	79.80				
23-Apr					27.57	175.35					208.66	940.01
24-Apr							14.19	78.97				
26-Apr	8.28	52.66	14.83	94.32	341.52	1998.62	84.80	471.91			560.09	2671.63
27-Apr	4.48	28.49	14.23	90.50	254.51	1526.94	63.53	353.54			276.16	1317.28
28-Apr	14.62	92.98	14.77	93.94	37.29	229.49	28.11	156.43	92.47	686.13	15.60	74.41
29-Apr	75.33	479.10	98.78	575.89	520.51	3050.34					15.81	75.41
30-Apr			59.69	371.79	365.93	2150.77						
TOTALS	102.71	653.24	564.46	3558.75	8761.72	50633.73	393.57	2190.22	92.47	686.13	1171.11	5505.78

Accumulative Scale $$$$
April Totals: 33842.78 144315.77
Accumulative Scale $$$$
Totals 2004: 104467.95 483960.41

OCM
Rail Shipments

April 2004

Ship Date	# Of Cars	#57 Rock	3/8"Chips	AgBase	5/8"Chips	1 1/2"CR	Total(T) Shipment
4/1/04	10	1013					1013
4/3/04	8	824					824
4/3/04	10	1065					1065
4/6/04	8	842					842
4/8/04	10	1054					1054
4/14/04	14			1610			1610
4/15/04	12					1380	1380
4/21/04	20		1150			1150	2300
4/26/04	20		1150		1150		2300
4/28/04	13				1495		1495
4/30/04	13				1495		1495
Totals:	**138**	**4798**	**2300**	**1610**	**4140**	**2530**	**15378**

Total For April 2004: **15378**

Total For Year 2004: **43956**

Product Totals for 2004:

#57	3/8"Chips	5/8"Chips	1 1/2"CR	Agg Base
17904	10867	11045	2530	1610

ES TONNAGE/INCOME

GREENHILL MATERIALS

May 2004

Date	5/8"C-Gabion		3/4"M		#57 Rock		Balast/2"M		Rip Rap		Agg BaseTBSC	
	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$
1-May												
3-May			120.07	724.12	564.04	3288.35	43.22	240.52			226.64	1081.07
4-May			60.40	384.14	545.39	3201.87	14.86	82.70				
5-May	184.11	1170.94	15.71	99.92	64.51	410.28	15.13	84.20				
6-May			30.66	104.00	471.32	2584.20	8.15	45.35			73.01	348.26
7-May			22.37	142.27	501.44	2946.96	15.75	87.65			455.67	2161.19
8-May												
10-May			57.30	364.43	531.48	3119.89						
11-May					846.70	4888.47	16.70	92.94			476.25	2223.81
12-May					345.49	2058.89	33.26	185.09			105.61	503.76
13-May			24.90	158.36	396.82	2313.46					96.67	448.19
14-May			14.82	94.26	45.71	290.72	29.99	166.89				
15-May												
17-May			41.60	264.58	417.87	2471.75	17.92	94.08				
18-May			143.46	912.41	537.96	3159.88					501.15	2261.35
19-May	42.19	221.49	106.12	674.92	493.79	2878.80					228.51	1089.99
20-May					495.45	2888.47					32.71	147.36
21-May			27.22	173.12	470.72	2744.30					155.86	739.06
22-May												
24-May			84.23	535.70	373.70	2193.35						
25-May			14.55	92.54	465.98	2754.90	13.89	77.30			15.72	70.82
26-May			42.67	244.29	517.26	3028.57	14.69	81.75				
27-May					219.09	1314.56					15.77	71.04
28-May			39.31	250.01	550.47	3245.68						
29-May												
31-May												
TOTALS	226.30	1392.43	845.39	5219.06	8855.19	51783.34	223.56	1238.47	0.00	0.00	2383.57	11145.91

	Scale	$$$$
Accumulative May Totals:	34023.85	148676.53
Accumulative Totals 2004:	138491.80	632636.94

OCM
Rail Shipments

May 2004

Ship Date	# Of Cars	#57 Rock	3/8"Chips	AgBase	5/8"Chips	1 1/2"CR	Total(T) Shipment
5/5/04	10	420			640		1060
5/6/04	9	945					945
5/8/04	12	1260					1260
5/15/04	17			1785			1785
Totals:	**48**	**2625**	**0**	**1785**	**640**	**0**	**5050**

Total For May 2004: 5050

Total For Year 2004: 49006

Product Totals for 2004:

#57	3/8"Chips	5/8"Chips	1 1/2"CR	Agg Base
20529	10867	11685	4315	1610

	5/8"C-Gabion		3/4"M		#57 Rock		Balast/2"M		Rip Rap		Agg BaseTBSC	
Date	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$
1-Jul												
2-Jul					34.63	220.25	100.61					
3-Jul												
5-Jul												
6-Jul												
7-Jul					14.83	94.32	43.83	243.91			13.21	63.01
8-Jul					522.83	3061.57	31.18	183.34			13.88	66.21
9-Jul			28.08	178.59	562.90	3289.71					13.81	65.87
10-Jul					397.52	2346.46						
12-Jul												
13-Jul	14.18	90.18	95.75	601.74	260.71	1558.37	26.51	147.53	179.08	1423.69	13.89	66.26
14-Jul			90.69	576.79	121.74	747.77					14.37	68.54
15-Jul			89.79	571.06	455.81	2695.98			130.72	1039.22	40.96	195.38
16-Jul												
17-Jul												
19-Jul												
20-Jul												
21-Jul												
22-Jul												
23-Jul												
24-Jul												
26-Jul												
27-Jul					416.19	2447.33			26.20	249.95		
28-Jul	13.80	87.77			349.05	2079.46						
29-Jul					306.62	1817.34			360.61	2866.85		
30-Jul	13.80	87.77	14.74	93.75	452.83	2640.00						
31-Jul											tonage	
TOTALS	41.78	265.72	319.05	2021.92	3895.66	22998.55	202.13	574.78	696.61	5579.71	110.12	525.27

Accumulative **Scale** **$$$$**
June Totals: **29038.55** **132980.91**
Accumulative **Scale** **$$$$**
Totals 2004: **197314.49** **905597.67**

	5/8"C-Gabion		3/4"M-1"M		#57 Rock		Balast/2"M		Rip Rap		Agg BaseTBSC	
Date	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$
2-Aug			28.61	181.96	516.92	3020.64					308.98	1473.83
3-Aug	14.63	93.05	43.57	277.11	217.60	1296.16					550.57	2626.22
4-Aug	11.61	110.76			575.02	3359.05	57.66	320.88			232.31	1108.12
5-Aug			86.88	552.56	356.75	2103.57	14.58	81.14				
6-Aug			58.16	369.90	5.56	3276.63						
7-Aug			16.83	107.04	13.88	88.28						
9-Aug	61.08	388.47	6.90	43.88	446.33	2602.10	14.68	81.69				
10-Aug	69.52	663.22			681.66	3980.47	16.07	102.21			78.17	372.87
11-Aug												
12-Aug			56.06	342.26	338.14	1981.68	88.29	491.33				
13-Aug			15.85	100.81	253.31	1489.15	128.17	713.27				
14-Aug												
16-Aug			86.49	518.83	634.91	3709.38			56.47	538.72		
17-Aug	14.57	77.22	58.55	372.38	444.15	2439.97	51.75	287.99	201.92	1926.32		
18-Aug	30.32	160.70			345.57	2022.75					71.15	339.39
19-Aug			97.48	619.97	490.62	2876.34			294.96	2813.92		
20-Aug			87.66	557.52	473.75	2761.96	19.31	107.46	458.27	4371.90	235.77	1124.62
21-Aug												
23-Aug	13.88	132.42			450.09	2624.02			355.79	3394.24	760.07	3614.20
24-Aug	45.69	301.01	14.39	91.52	477.23	2804.48					648.88	3095.16
25-Aug			28.66	182.28	532.07	3003.20					128.09	610.99
26-Aug												
27-Aug												
28-Aug												
30-Aug			69.24	440.37	568.26	3352.55	13.44	74.79			378.41	1805.02
31-Aug			14.96	95.15	187.35	1100.25	14.81	82.42			56.07	252.60
TOTALS	261.30	1926.84	770.29	4853.51	8009.17	49892.64	418.76	2343.18	1367.41	13045.09	3448.47	16423.01

Accumulative Scale $$$$
August Totals: 32511.63 165674.91
Accumulative Scale $$$$
Totals 2004: 229826.12 1071272.58

TONNAGE/INCOME GREENHILL MATERIALS July 2004

Date	5/8"C-Gabion		3/4"M-1"M		#57 Rock		Balast/2"M		Rip Rap		Agg BaseTBSC	
	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$
1-Oct			14.71	93.56	547.64	3207.83	88.87	494.56				
2-Oct												
4-Oct			85.60	544.42	113.29	684.73						
5-Oct	73.40	739.14	32.58	544.42	508.83	2994.92	14.77	82.20	14.23	143.30	98.00	467.46
6-Oct	28.74	274.18	252.89	1608.38	433.13	2551.01	529.39	2946.06				
7-Oct					115.96	691.61			85.23	813.09	30.75	146.68
8-Oct			73.57	467.91	296.82	1730.46	14.11	78.52			133.40	636.32
9-Oct												
11-Oct					49.62	289.28						
12-Oct			28.97	184.25	346.79	2021.79	43.04	239.52			417.65	1992.19
13-Oct	88.92	565.53	64.97	413.21	226.95	1323.12					456.91	2179.46
14-Oct					74.79	436.03	29.34	163.28				
15-Oct			56.64	360.23	111.70	651.21	14.85	82.64				
16-Oct												
18-Oct			119.76	761.67	636.69	3711.90	28.13	156.54				
19-Oct			121.03	769.75	373.66	2178.44	43.67	243.02			265.48	1266.34
20-Oct			77.39	492.20	156.93	1131.21	43.76	243.52			226.62	1029.01
21-Oct	15.81	151.14	129.43	623.75	474.08	2797.19	83.67	465.62				
22-Oct	15.62	149.01	14.42	91.71	533.65	3119.21	67.28	374.41				
23-Oct												
25-Oct			15.32	97.44	327.09	1959.31	260.82	1451.46			74.68	356.22
26-Oct					49.20	286.84						
27-Oct			15.22	96.80	484.99	2827.49						
28-Oct			14.62	85.23	274.08	1597.89					86.26	338.46
29-Oct			22.20	141.19	75.25	438.71					51.94	247.75
30-Oct												
TOTALS	222.49	1879.00	1139.32	7376.11	6211.14	36630.16	1261.70	7021.36	99.46	956.39	1841.69	8659.89

	Scale	$$$$
Accumulative Sept. Totals:	29941.49	142404.84
Accumulative Totals 2004:	293832.98	1213677.42

SALES TONNAGE/INCOME

GREENHILL MATERIALS

November 2004

	5/8"C-Gabion		3/4"M-1"M		#57 Rock		Balast/2"M		Rip Rap		Agg BaseTBSC	
Date	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$	Quantity	$$$$
1-Nov			14.35	83.66	74.72	475.22						
2-Nov			13.93	88.59	456.02	2672.60					122.61	577.19
3-Nov					49.93	317.55						
4-Nov			60.01	381.66	456.09	2693.79						
5-Nov			272.22	1613.85	282.02	1644.18					77.36	369.01
6-Nov												
8-Nov			41.44	263.56	572.06	3661.20					62.18	296.60
9-Nov	318.83	2027.76	71.12	420.40	239.43	1430.10					62.92	300.13
10-Nov			113.09	719.25	484.38	2837.61			117.07	1178.89	155.25	740.54
11-Nov			28.99	184.38	212.61	1247.31						
12-Nov	484.21	3079.58			222.25	1205.88					77.97	371.92
13-Nov												
15-Nov			39.99	254.34	198.28	1165.61					66.93	319.26
16-Nov	48.97	311.45	14.17	90.12	454.63	2691.95						
17-Nov					570.69	3314.93					107.59	513.20
18-Nov												
19-Nov	25.12	159.76	43.72	43.72	304.15	1792.83					148.47	708.20
20-Nov												
22-Nov			23.14	147.17	253.72	1534.39					14.31	68.26
23-Nov					120.96	752.06					24.83	118.44
24-Nov					85.74	545.31						
25-Nov												
26-Nov												
27-Nov												
29-Nov					34.69	220.63						
30-Nov					25.57	162.63	39.75	221.21			68.16	325.12
TOTALS	877.13	5578.55	736.17	4290.70	5097.94	30365.77	39.75	221.21	117.07	1178.89	988.58	4707.87

	Scale	$$$$
Accumulative Nov. Totals:	28998.45	122885.98
Accumulative Totals 2004:	322831.44	1336563.40

ATTACHMENT C – SULFUR CONTENT OF THE DIESEL FUEL

Youngman, David

From: Daryl Worley [darylw@sherwoodoklahoma.com]
Sent: Monday, February 14, 2005 11:51 AM
To: Youngman, David
Subject: Greenhill Fuel records

Daryl Worley
darylw@sherwoodo.

Greenhill Fuel
Sulfur.pdf

David, please find attached the most recent fuel purchase bill of lading.

Thanks
Daryl

; IS TO CERTIFY THAT THE HEREIN NAMED MATERIALS ARE
)PERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND
ELED, AND ARE IN PROPER CONDITION FOR TRANSPORTA-
N, ACCORDING TO APPLICABLE REGULATIONS OF THE D.O.T.

;HIPMENT INCLUDES UNLEADED GASOLINE THE PRODUCT
NTAINS NO MORE THAN 0.05 GRAMS OF LEAD PER GALLON
) NO MORE THAN 0.005 GRAMS OF PHOSPHOROUS PER GAL-
N CONFORMING TO E.P.A. REGULATIONS - 40 CFR 80 -.

CEIVED SUBJECT TO TARIFFS OR CONTRACT IN EFFECT THIS
TE.

E CARRIER CERTIFIES THAT THE CARGO TANK SUPPLIED FOR
IS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPOR-
TION OF THIS COMMODITY AS DESCRIBED BY THE SHIPPER.

E DRIVER BY SIGNING THIS TICKET HEREBY CERTIFIES THAT TRANSPORT
S LOADED AS SPECIFIED.

N RE → DATE

CEIVED QUANTITIES IN GOOD ORDER

N RE → DATE

4. CONSIGNEE COPY

BILL OF LADING/MANIFEST

"FOR CHEMICAL EMERGENCY-
SPILL, LEAK, FIRE, EXPOSURE
OR ACCIDENT CALL CHEMTREC
800-424-9300 DAY OR NIGHT."

THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR REFORMULATED GASOLINE, AND MAY NOT BE USED IN ANY REFORMULATED GASOLINE COVERED AREA.

ALL GASOLINES ARE ADDITIZED FOR SALE TO THE FINAL CONSUMER.

ALL LOW SULFUR DIESEL: SULFUR CONTENT EQUAL TO OR LESS THAN 0.05% BY WEIGHT.

SINCLAIR OIL EPA REGISTRATION 4047.

SHIPPER CERTIFIES THAT THE GOODS COVERED BY THIS TICKET WERE PRODUCED IN COMPLIANCE WITH ALL REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT, AS AMENDED.

IIPPING DESCRIPTIONS

'UEL OIL(NO 2.),COMBUSTIBLE LIQUID,NA1993,PGIII 5701 Gallons

SOLD TO	SHIP TO
FLINT HILLS RESOURCES, LP SARA MATRECI P.O. BOX 2302 WICHITA , KS 67201	SHERWOOD CONSTRUCTION PLANT PETROEX #12044 VARIOUS , OK

SHIP FROM ADDRESS	DATE SHIPPED		B.O.L. NO.
	01/08/05		2905

SUPPLIER	LOAD #	CUSTOMER NO.
SINCLAIR PIPELINE CO., INC.	4126	K012044

DRIVER NAME	SHIP VIA - CARRIER NAME/I.D.	TRAILER #	DRIVER #	COMPLETED LOADING AT	LOAD PCS.
CUMMISKY, STEVE	OKLAHOMA TANK LINE/ UPT 3375	00351	0258	06:55	4

PRODUCT	OCTANE R+M/2	RVP MAX.	GROSS GALLONS	TEMP.	A.P.I. GRAVITY	NET GALLONS
DYED LOW SULFUR NO.2 FUEL OIL	0	0.0	5701	29	36.5	5785

MATERIAL SAFETY DATA SHEET AVAILABLE ON REQUEST

Check Carrier Ins.

DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE.
USE EMERGENCY RESPONCE GUIDE 128.

#100

UPT

...A TANK LINES / UNITED PETROLEUM TRANSPORTS

...Georgia Pl. • OKLAHOMA CITY, OK 73129 • (405) 677-6633 • INBOUND WATS: (800) 777-TANK

DISPATCH NO. 4 0 0 8 2 5 5

BILL FREIGHT TO: Sherwood

SUPPLIER: Flint Hills

LOAD AT: Sinclair, AT Tulsa, Ok

LOADING:	A.M.	P.M.	DATE
STARTED:			01 – 08
FINISHED:			

TRUCK NUMBER: 3711 TRAILER NUMBER: 351 SEAL NUMBERS: , THRU PURCHASE ORDER NO.: RELEASE NO.:

DESTINATION/CONSIGNEE (1st Stop): Green Hill Materials CITY / STATE: Catoosa, Ok

DESTINATION/CONSIGNEE (2nd Stop): CITY / STATE:

UNLOADING: / AM PM DATE: 01 – 08 – 05

UNLOADING: / AM PM DATE:

PRODUCT	BEFORE	AFTER	GROSS GALS	PRODUCT	BEFORE	AFTER	GROSS GALS
...ed Diesel	1"	79½"	7001				

RECEIVED IN GOOD CONDITION, UNLOADED AS PER ORDER.

RECEIVER: BY: X

RECEIVED IN GOOD CONDITION, UNLOADED AS PER ORDER.

RECEIVER: BY: X

COMP	BILL OF LADING	PRODUCT DESCRIPTION	GALLONS/WEIGHT GROSS	GALLONS/WEIGHT NET	RATE	AMOUNT
		GASOLINE, 3, UN1203, II (UNLEAD)				
		GASOLINE, 3, UN1203, II (MIDGRADE)				
		GASOLINE, 3, UN1203, II (PREMIUM)				
-4-5	2905	DIESEL FUEL, 3, NA 1993, III ☐ HIGH SULFUR ☐ LOW SULFUR Dyed	5701	5785		
"	2906	" " " " Dyed	1300	1319		
			7001	7104		

WEIGHTS	GROSS	TARE	NET	LOSS GAIN +
LOADING				
UNLOADING				

DETENTION CHARGE AUTHORIZATION

DETENTION CHARGES FOR LOADING/UNLOADING HAVE BEEN INCURRED.

	DATE	TIME
DATE/TIME TRUCK WAS TO ARRIVE		A.M. P.M.
DATE/TIME TRUCK ARRIVED		A.M. P.M.
DATE/TIME TRUCK WAS RELEASED		A.M. P.M.

The property described hereon, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked; consigned and destined as indicated, which said carrier agrees that every service to be performed hereunder shall be subject to all rates and charges. Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of each commodity, as described by the shipper. Received subject to tariffs and/or contracts in effect on the date of issuance hereof.

DETENTION CHARGES AUTHORIZED BY:

ACCESSORIAL SERVICES	
STOP CHARGE	☐ Part Load B.O.L. NO. ☐ Part Unloaded ____ @ ____
PUMP CHARGE	GALS. ____ LBS @ ____ GAL. PER LB. =
C.O.D. CHARGE	
DETENTION	Loading Hrs. Over Free Time, ____ Unloading Hrs. Over Free Time, ____
FUEL SURCHARGE	
OTHER (SPECIFY)	
TOTAL CHARGE PLEASE PAY THIS AMOUNT ▶	

REMARKS:

IMAGED AS RECEIVED

02728387

DRIVER SIGNATURE: [signature]

DRIVER NAME (PLEASE PRINT):

TERMINAL: Tulsa, Ok

INVR05AP9

United Petroleum Transports

4312 S. GEORGIA PLACE • OKLAHOMA CITY, OKLAHOMA 73129
PHONE (405) 677-6633 WATS (800) 777-TANK
www.otl-upt.com

INVOICE DATE	INVOICE NUMBER
1/12/2005	4008255

SHIPPED FROM

15123

SINCLAIR PIPELINE CO
1307 W 35TH

TULSA OK 74101

DELIVERED TO

59520

GREENHILL QUARRY
46TH ST N
2 MI WEST OF PORT
CATOOSA OK 74015

BILL TO

28309

SHERWOOD CONSTRUCTION
4716 N 193RD E AVE
PO BOX 10
CATOOSA OK 74015

PLEASE REMIT PAYMENT TO:

United Petroleum Transports
P.O. Box 973121
Dallas,TX 75397-3121

PURCHASE ORDER NO.	MILES	TRACTOR NO.	TRAILER NO.	SHIP DATE
	16	3711/CUMS	351	1/08/05

POD:02728387 7502

BILL OF LADING NO.	DESCRIPTION	NET	GROSS	RATE		AMOUNT
2905/06	DIESEL FUEL # 2	7,104	7,001	.0196		137.22
	PUMP CHARGE $40			40.00	FLT	40.00
	FUEL SURCHARGE		1.00	13.00	PCT	17.84
	INSURANCE SURCHARGE			4.55	PCT	6.24

FREIGHT CHARGE 100 990X99440 EF
7,104 gal. @ 2.84 frt.
Dns
2-10-05
13074
201.30

TERMS: NET 7 DAYS. ICC REGULATIONS REQUIRE PAYMENT BE MADE WITHIN 7 DAYS.

PAY THIS AMOUNT 201.30

Need to see the Freight Bill or Bill of Lading.
visit us on line at www.otl-upt.com and select Images on Demand

REMITTANCE COPY ... PLEASE DETACH AND SEND WITH PAYMENT

Customer 28309

SHERWOOD CONSTRUCTION
4716 N 193RD E AVE
PO BOX 10
CATOOSA OK 74015

Invoice Number 4008255

Invoice Amount 201.30

Check Number

Amount Paid

Please Remit To:

United Petroleum Transports
P.O. Box 973121
Dallas,TX 75397-3121

Please explain any differences.

ATTACHMENT D – MONTHLY USE OF WATER TO CONTROL PM

GREENHILL MATERIALS

WATER USAGE REPORT

2002

MONTH	GALLONS	DOCUMENT #
JANUARY	-	
FEBRUARY	-	
MARCH	54,000.00	349438
APRIL	26,000.00	356170
MAY	30,000.00	363165
JUNE	-	369070
JULY	77,000.00	377022
AUGUST	107,000.00	382943
SEPTEMBER	76,000.00	389477
OCTOBER	160,000.00	397890
NOVEMBER	72,000.00	403150
DECEMBER	26,000.00	408694

Post-it® Fax Note 7671	Date 2/16/05	# of pages ▶ 3
To David Youngman	From Shawn Roberts	
Co./Dept.	Co. Greenhill Mat.	
Phone #	Phone # 274-6560	
Fax #	Fax # 274-6562	

GREENHILL MATERIALS

2003

WATER USAGE REPORT

MONTH	GALLONS	DOCUMENT #
JANUARY	2,000.00	414925
FEBRUARY	9,000.00	421948
MARCH	28,000.00	430339
APRIL	27,000.00	437166
MAY	16,000.00	444655
JUNE	16,000.00	451185
JULY	67,000.00	459688
AUGUST	99,000.00	467071
SEPTEMBER	30,000.00	474522
OCTOBER	82,000.00	483140
NOVEMBER	82,000.00	488729
DECEMBER	60,000.00	498349

GREENHILL MATERIALS

WATER USAGE REPORT **2004**

MONTH	GALLONS	DOCUMENT #
JANUARY	44,000.00	504902
FEBRUARY	57,000.00	510563
MARCH	68,000.00	517925
APRIL	89,000.00	524733
MAY	84,000.00	532441
JUNE	92,000.00	540394
JULY	359,000.00	549425
AUGUST	58,000.00	555541
SEPTEMBER	82,000.00	564795
OCTOBER	63,000.00	572348
NOVEMBER	9,000.00	580685
DECEMBER	35,000.00	585776

REPORT FOR ON-SITE SEWAGE TREATMENT

SOIL PERCOLATION TEST

(PLEASE PRINT LEGIBLY or TYPE)

Log# 16-40-046

GENERAL INFORMATION:

Name and Mailing Address of Property Owner: Gerald (First Name) Potts (Last Name) 5302 Valley Dr (Mailing Address) Talihina (City) 74571 (Zip Code)

Owner Phone Number: 918+649-7465 Owner's E-Mail Address (Optional):

Property Address: 42419 Greenhill Rd (Street Address) Talihina (City) 74571 (Zip Code) Leflore (County), Oklahoma

Legal Description: W, SE, NE, +W, NE, NE TW, NE S17 T3N R22E Lot Size ft² or 12.1 acres

Finding Location: VALLEY DR. 1m to GREENHILL RD. W .4M on GREENHILL. SSR (Blocks or miles from a given point)

Water Supply: ☐ Individual Private Well or ☑ Public Water Supply – Name: RWD 3

WATERBODY PROTECTION AREA:

Dispersal field located in Water Body Protection Area: *check one* ☐ Zone 1 ☐ Zone 2 or ☒ None

Flow Certification: 27A O.S. 2001, Section 2-6-403 states-It shall be the duty of the person contracting with an installer who is modifying or installing an on-site sewage treatment system for a residence or business to certify the number of bedrooms in the residence or the water usage of the business that will be served by the sewage treatment system so that the system can be properly sized."
The following information was certified on DEQ Form 641-581cert. (Certification Documentation Form)

☒ This individual sewage treatment system will serve an individual residence or duplex with the following # of bedrooms 4

☐ The estimated flow or actual flow for this small public sewage system is _____ gal/day and is a _____ (Type of Facility)

SOIL TEST RESULTS: ☐ Design Only Print First and Last Name: [redacted] Design Date [redacted]

TEST HOLE	Test Hole Depth	Test Hole Percolation Rate
#1	24 inches	45 min/in
#2	24 inches	45 min/in
#3	24 inches	45 min/in
#4	_____ inches	_____ min/in
#5	_____ inches	_____ min/in
#6	_____ inches	_____ min/in

SHALLOWEST DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED	OVERALL PERCOLATION RATE
0 inches	45 minutes/inch

SYSTEMS ALLOWED

System Type	Option based on percolation test results?
CSA – Conventional Subsurface Absorption:	☒ Y ☐ N
L – Lagoon:	☐ Y ☐ N
ASI – Aerobic w/Spray Irrigation:	☐ Y ☐ N

Presoak Certification:
I hereby certify that I started the presoak no earlier than 24-hours prior to the start of the percolation test procedure; I did not observe water in any of the test holes prior to starting the presoak; I presoaked each test hole by filling them with water and then refilling them as necessary to maintain a water depth of at least 12 inches for at least 4 consecutive hours.

GEORGE (Printed First Name) DOWELL (Last Name) George Dowell (Signature) 6-2-16 (Date Signed)

Soil Tester Certification:
I certify that I conducted the above-described percolation test in compliance with OAC 252:641 on 6-2-16 and the dispersal field will not be located in a Water Body Protection Area.

George (Soil Tester's First Name) Dowell (Last Name) George Dowell (Soil Tester's Signature) 6-2-16 (Date Signed)

Registration # 968 ☒ RPS ☒ RPES ☐ PE ☐ LS ☐ SS

22038 McKenzie Road Poteau, Ok 74953 (Mailing Address) 918 647 8040 (Phone Number)

RECOMMENDED SYSTEM: *(check one)*

☒ CSA – Conventional Subsurface Absorption *(requires soil test)* ☐ L – Lagoon ☐ ASI – Aerobic with Spray Irrigation

DEQ USE ONLY: Percolation Test Results / Design:

☒ **ACCEPTED** by DEQ on: 6-6-15 (Date)

☐ **REJECTED** by DEQ on: _____ (Date) _____ (Initial)

Notes:

Mike Robinson (Environmental Specialist's Signature) 6480 (Employee ID)

Revised 8/1/2014

DEQ FORM 641-581P

Owner's Last Name Potts

SYSTEM DESIGN:

TREATMENT:

☒ **Septic Tank** with 1000 gal. liquid capacity ☐ **Aerobic Treatment**

DISPERSAL:

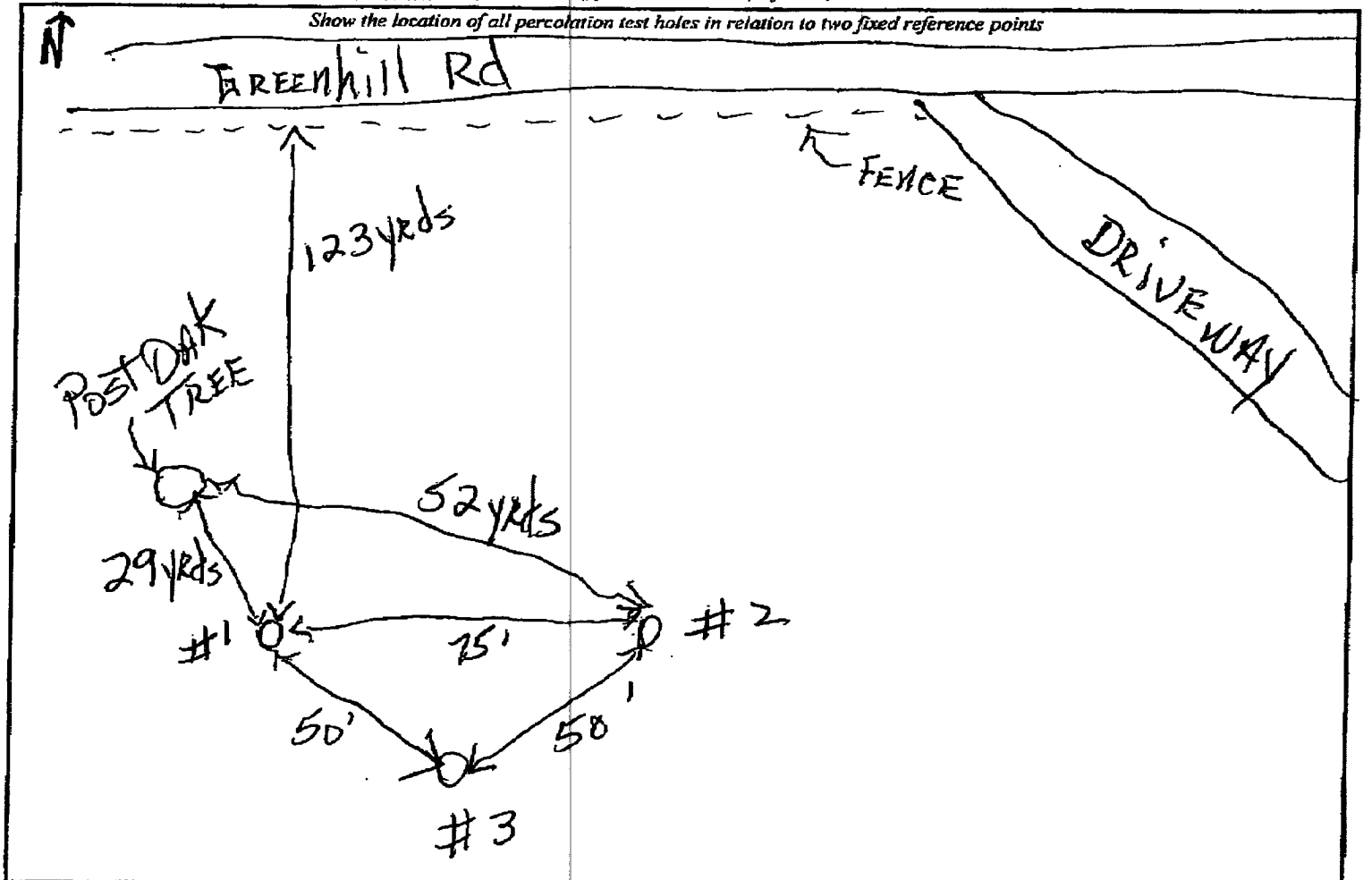
☒ **CSA:** with 700 feet of subsurface absorption trenches. The trench bottom shall be no deeper than 18 inches

☐ **L:** with bottom dimensions of _____ feet by _____ feet or with a diameter of _____ feet

☐ **ASI:** with a _____-gallon capacity pump tank and _____ square feet of spray irrigation area

LOCATION OF PERCOLATION TEST HOLES: *(Skip this section if percolation test not performed)*

Show the location of all percolation test holes in relation to two fixed reference points



REMARKS:

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

ENVIRONMENTAL COMPLAINTS AND LOCAL SERVICES DIVISION
Certification Documentation Form

(PLEASE PRINT or TYPE)

Work Order No. WO
System No. NA
Date Rec'd 6-6-16

GENERAL INFORMATION:

Name and Mailing Address of Property Owner: Gerald (First Name) Potts (Last Name) 53102 Valley Dr (Street Address) Talihina (City) 74571 (Zip Code)

Owner's E-Mail Address *(Optional)* ———

Property Address: 42419 Greenhill Rd. (Street Address) Talihina (City) 74571 (Zip Code) LeFlore (County), Oklahoma

Legal Description: 24 Sec 17 T3N R 22E Lot Size in: _____ ft², or 1.21 acres

Finding Location: Valley Dr 1m to Greenhill Rd. W. .4m on Greenhill. SSR
(Blocks or miles from a given point)

Please check the applicable certification that applies and sign below.

Flow Certification:

27A O.S. Section 2-6-403 A. 1. States: It shall be the duty of the person contracting with an installer who is modifying or installing an on-site sewage treatment system for a residence or business to certify the number of bedrooms in the residence or the water usage of the business that will be served by the sewage treatment system so that the system can be properly sized.

☒ This individual sewage treatment system will serve an individual residence or duplex with the following # of bedrooms: 4.

☐ The estimated flow or actual flow for this small public sewage system is _____ gal/day and is a _____ .
Type of Facility

I hereby certify under penalty of law that this document contains no willful or negligent misrepresentation or falsification and that all information is true, accurate and complete.

Gerald (Print First Name) Potts (Last Name) Gerald Potts (Signature) 6-2-16 (Date Signed)

Log# 13-40-094

REPORT FOR ON-SITE SEWAGE TREATMENT

SOIL PERCOLATION TEST

(PLEASE PRINT or TYPE)

System No. na

Date Rec'd 9-20-13

GENERAL INFORMATION:

Name and Mailing Address of Property Owner: Bob (First Name) Wood (Last Name) 43363 Greenhill Rd. (Mailing Address) Talihina (City) 74571 (Zip Code)

Owner Phone Number: (918) 916-2227 Owner's E-Mail Address (Optional): —

Property Address: 43363 Greenhill Road (Street Address) Talihina (City) 74571 (Zip Code) LeFlore (County), Oklahoma

Legal Description: Part of NE/4, NE/4, Sec#18, R22E, T3N, (attachment) Lot Size _____ ft² or 6 acres

Finding Location: S.H.#63 2 Greenhill Rd, E. on Greenhill Rd for 0.3 mile, site on South side Rd. (Blocks or miles from a given point)

Water Supply: ☐ Individual Private Well or ☒ Public Water Supply – Name: LeFlore Co. R.W.D.#3

WATERBODY PROTECTION AREA:

Dispersal field located in Water Body Protection Area: *check one* ☐ Zone 1 ☐ Zone 2 or ☒ None

Flow Certification: 27A O.S. 2001, Section 2-6-403 states-It shall be the duty of the person contracting with an installer who is modifying or installing an on-site sewage treatment system for a residence or business to certify the number of bedrooms in the residence or the water usage of the business that will be served by the sewage treatment system so that the system can be properly sized."
The following information was certified on DEQ Form 641-581cert. (Certification Documentation Form)

☒ This individual sewage treatment system will serve an individual residence or duplex with the following # of bedrooms 3

☐ The estimated flow or actual flow for this small public sewage system is _____ gal/day and is a _____ (Type of Facility)

SOIL PERCOLATION TEST RESULTS: ☐ **No Soil Test Performed** *Print First and Last Name of* Designer _____ _____

TEST HOLE	*Test Hole Depth*	*Test Hole Percolation Rate*
#1	30 inches	50 min/in
#2	30 inches	38 min/in
#3	30 inches	43 min/in
#4	_____ inches	_____ min/in
#5	_____ inches	_____ min/in
#6	_____ inches	_____ min/in

SHALLOWEST DEPTH AT WHICH GROUNDWATER WAS ENCOUNTERED	OVERALL PERCOLATION RATE
NONE inches	44 minutes/inch

SYSTEMS ALLOWED

System Type	*Option based on percolation test results?*
CSA – Conventional Subsurface Absorption:	☒ Y ☐ N
L – Lagoon:	☐ Y ☒ N
ASI – Aerobic w/Spray Irrigation:	☒ Y ☐ N

Presoak Certification:
I hereby certify that I started the presoak no earlier than 24-hours prior to the start of the percolation test procedure; I did not observe water in any of the test holes prior to starting the presoak; I presoaked each test hole by filling them with water and then refilling them as necessary to maintain a water depth of at least 12 inches for at least 4 consecutive hours.

Charles R DeWeese (Printed First Name) DeWeese (Last Name) Charles R DeWeese (Signature) 9-14-13 (Date Signed)

Soil Tester Certification:
I certify that I conducted the above-described percolation test in compliance with OAC 252:641 on 9-14-13 and the dispersal field will not be located in a Water Body Protection Area.

Charles R DeWeese (Soil Tester's First Name) DeWeese (Last Name) Charles R DeWeese (Soil Tester's Signature) 9-14-13 (Date Signed)

Registration # 12925 ☐ RPS ☐ RPES ☒ PE ☐ LS ☐ SS

P.O. Box 862 Antlers Okla 74523 (Mailing Address) 9-14-13 (Phone Number)

RECOMMENDED SYSTEM: *(check one)*

☒ **CSA – Conventional Subsurface Absorption** *(requires soil test)* ☐ **L – Lagoon** ☐ **ASI – Aerobic with Spray Irrigation**

DEQ USE ONLY: Percolation Test Results / Design:

☒ **ACCEPTED** by DEQ on: 9-20-13 (Date)

☐ **REJECTED** by DEQ on: _____ (Date)

Notes:

Mike Robinson (Environmental Specialist's Signature) 6480 (Employee ID)

OKLAHOMA
Department of Environmental Quality
...to clean, strong, prosperous lifetimes

ENVIRONMENTAL COMPLAINTS AND LOCAL SERVICES DIVISION

Certification Documentation Form

(PLEASE PRINT or TYPE)

Work Order No.	
System No.	
Date Rec'd	

GENERAL INFORMATION:

Name and Mailing Address of Property Owner: Bob (First Name) Wood (Last Name) 43363 Greenhill (Street Address) Talihina (City) 74571 (Zip Code)

Owner's E-Mail Address *(Optional)*: —

Property Address: 43363 Greenhill Rd (Street Address) Talihina (City) 74571 (Zip Code) LeFlore (County), Oklahoma

Legal Description: Part of NE/4, NE/4, Sec 18, T3N, R22E (attachment) Lot Size in: _____ ft², or 6 acres

Finding Location: S.H. 63 & Greenhill Rd. E. on Greenhill Rd for 0.3 mile, site on South side Rd (Blocks or miles from a given point)

Please check the applicable certification that applies and sign below.

Flow Certification:

27A O.S. Section 2-6-403 A. 1. States: It shall be the duty of the person contracting with an installer who is modifying or installing an on-site sewage treatment system for a residence or business to certify the number of bedrooms in the residence or the water usage of the business that will be served by the sewage treatment system so that the system can be properly sized.

☒ This individual sewage treatment system will serve an individual residence or duplex with the following # of bedrooms: 3.

☐ The estimated flow or actual flow for this small public sewage system is _____ gal/day and is a _____ (Type of Facility).

I hereby certify under penalty of law that this document contains no willful or negligent misrepresentation or falsification and that all information is true, accurate and complete.

Bob (Print First Name) Wood (Last Name) Bob Wood (Signature) 9-14-13 (Date Signed)

System No. _____
Owner's Last Name _____

SYSTEM DESIGN:

TREATMENT:

☒ **Septic Tank** with 1,000 gal. liquid capacity ☐ **Aerobic Treatment**

DISPERSAL:

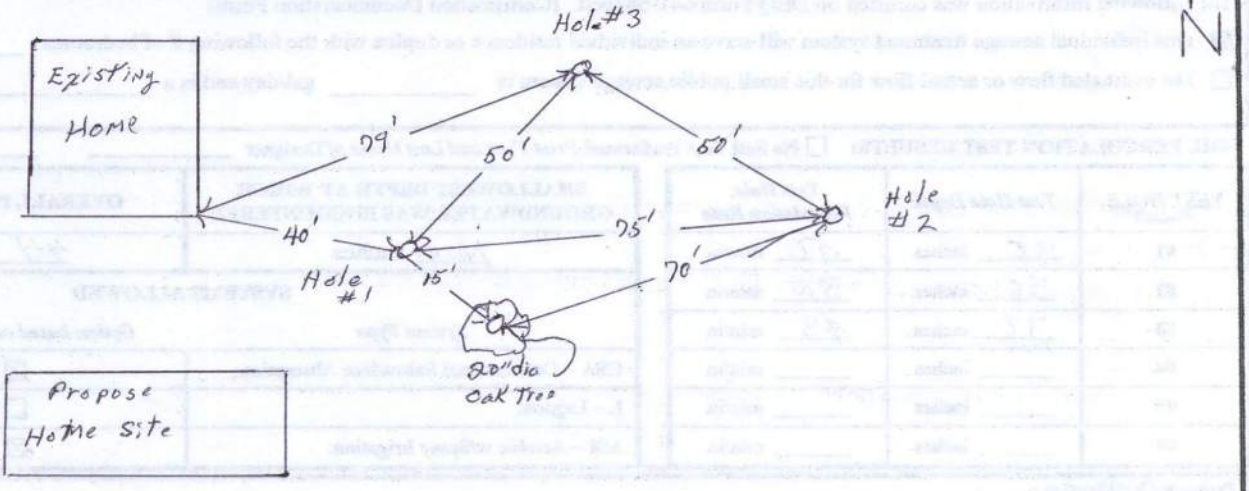
☒ **CSA:** with 560 feet of subsurface absorption trenches. The trench bottom shall be no deeper than 24 inches

☐ **L:** with bottom dimensions of _____ feet by _____ feet or with a diameter of _____ feet

☐ **ASI:** with a _____-gallon capacity pump tank and _____ square feet of spray irrigation area

LOCATION OF PERCOLATION TEST HOLES: *(Skip this section if percolation test not performed)*

Show the location of all percolation test holes in relation to two fixed reference points



REMARKS:

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR 051574

Section II. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: 5411 N. 145th E. Ave.

City: Owasso County: Rogers Zip Code: 74055

RECEIVED FEB 23 2012 DEQ

Section III. Facility Location

Name: Same as above Phone:

Address:

City: County: Zip Code:

Latitude: 36.232 deg N Longitude: 95.810 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 2/20/12

Signature: Matt Ritchie Title: Materials Manager

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: January 1 to December 31, 2011

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
6/22/2011	Drums improperly stowed	Y	6/30/2011
6/22/2011, 9/27/2011	Containment maintenance	Y	11/20/2011
12/22/2011	Urea hose nozzle on ground	Y	12/28/2011

✓ What must you do to correct the deficiencies that remain uncorrected?

_____

_____

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes X No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes _____ No_____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes X No_____ No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No X All BMPs were effective _____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No_____ All BMPs were being effective X

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No__x__ No spills or leaks occurred_____

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes __x__ No_____ No spills or leaks occurred_____

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes __x__ No_____ Number of Visual Monitoring __2____

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__x__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
(5.) N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6.) N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA _____

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No__x__

See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051574

Section II. Facility Operator Information

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Concrete Products, Inc. Phone: 918-266-6861

Address: 5411 N. 145th East Avenue

City: Owasso County: Rogers Zip Code: 74055

Latitude: 36.232 deg N Longitude: 95.810 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 2/14/13

Signature: Matt Ritchie Title: Materials Manager

RECEIVED

FEB 20 2013

ECLS

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 1/1/2012 - 12/31/2012.

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
3/19/2012	Used oil pallets draining to T01	Y	6/21/2012
6/22/2012	Form oil totes lack containment	Y	9/27/2012
9/28/2012	Two drums sitting on apron on west side of shop	Y	10/5/2012

✓ What must you do to correct the deficiencies that remain uncorrected?
Drum storage area on west side of shop needs to be eliminated.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes ____ No X

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes X No____. All BMPs were being implemented ____

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes X No____ No deficiencies noted in any inspection ____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes X No____ All BMPs were effective ____

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ____ No X All BMPs were being effective ____ Drum storage area on west side of shop will soon be eliminated.

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes X No____ Earthen containment walls for Form Oil totes need to be constructed.

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ____ No____ Permit applied for ____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes X No____

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_X_ No spills or leaks occurred_____

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes _X_ No_____ No spills or leaks occurred_____

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes _X_ No_____ Number of Visual Monitoring _1_____ Inability to sample was due to lack of rainfall and timing (nighttime precipitation.)

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No_X_

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
X5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
X6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ NA

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes _____ No_X_

See Page 4 for Instructions

DEQ FORM 605-006	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY	**Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)**

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OKR 05 2212

OPDES Permit Authorization Number: General Permit not issued to date.

Section II. Facility Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Section III. Facility Location

Name: Greenhill Materials Company, Inc. Phone: 918-266-6861

Address: P.O. Box 10

City: Catoosa County: Rogers Zip Code: 74015

Latitude: 36.234 deg N Longitude: 95.802 deg W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1st of each year beginning in 2012.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Matt Ritchie Date: 1/5/12

Signature: Title: Materials Manager

RECEIVED

JAN 09 2012

DEQ LCLS

Annual Comprehensive Site Compliance Evaluation Report - Part B
Page 1.

Reporting Period: 1/1/2011 to 12/31/2011.

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
6/22/2011	Housekeeping	Y	6/23/2011
9/28/2011	Housekeeping	Y	9/28/2011
12/28/2011	Housekeeping	Y	12/28/2011

✓ What must you do to correct the deficiencies that remain uncorrected?
NA. Note - Most housekeeping issues are related to truckers tossing trash as they drive past a dumpster on their way out of the quarry.

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?
Yes Y No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes _____ No_____ All BMPs were being implemented X

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes _____ No X No deficiencies noted in any inspection _____

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes _____ No_____ All BMPs were effective X

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes _____ No_____ All BMPs were being effective X

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes _____ No X

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes _____ No X

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes _____ No_____ Permit applied for _____ No known illicit discharges X

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes _____ No X

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes _____ No X

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred__x___

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes __x__ No_____ No spills or leaks occurred_____

✓ How many times did you visually monitor all your storm water discharges at all the facility outfalls during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Yes __x__ No_____ Number of Visual Monitoring ___1___

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No__x__

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ Not applicable since facility does not conduct dewatering and is not required to conduct Numeric Effluent Limitation Monitoring (NELM).

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

✓ Is there any required revisions to the SWP3 resulting from the inspection?
Yes __x__ No_____ Updated SWP3 to comply with new General Permit.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

February 24, 2012

MATT RITCHIE
SHERWOOD CONSTRUCTION COMPANY, INC.
PO BOX 10
CATOOSA, OK 74015

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number: OKR052212

Dear Mr Ritchie:

The new Notice of Intent (NOI) for the facility listed below was received on September 28, 2011 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in Rogers County.

Facility:
GREENHILL MATERIALS CO INC - CATOOSA
14701 EAST 46TH ST NORTH
OWASSO, OK 74055

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2012 will be invoiced for the full permit year (July 1, 2012 - June 30, 2013).

If you have any questions regarding this permit or the Storm Water Program, please call Matthew Johnson of the Environmental Complaints and Local Services Division at (405) 702-6182.

Sincerely,

Matt Johnson

Matthew Johnson
Environmental Program Specialist
Environmental Complaints and Local Services

Enclosures

c: Claremore DEQ Office

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. **OKR052212**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction Company, Inc.

PO Box 10

Catoosa, OK 74015

Is authorized to discharge storm water from an industrial site located in Rogers County at

Greenhill Materials Co Inc. - Catoosa

14701 East 46th St North

Owasso, OK 74055

The receiving body of water is Bird Creek.

This facility discharges into a 303(d) listed stream.

The OPDES requires permittees to have a Storm Water Pollution Plan (SWP3) which includes a description of appropriate control measures. These are applicable to your industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.
The Authorization shall become effective **February 22, 2012** and will expire at midnight September 4, 2016.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on September 5, 2011, shall apply to the recipient of this authorization.

Mark Derichsweiler, P.E., Engineering Manager
Watershed Planning and Storm Water Permitting
Water Quality Division

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

October 25, 2002

Ed Kallay
Grab Properties LLC
PO Box 52603
Tulsa, OK 74105-

Re: Authorization for Storm Water Discharge from Construction or Land Disturbing Activity
Authorization Number OKR100068

Dear Ed Kallay:

The new Notice of Intent (NOI) for the facility listed below was received on October 15, 2002 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with construction or land disturbing activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR10 for the following site located in Tulsa County.

Facility: Greenhill Subdivision
4401 S Lewis Ave
Tulsa

All applicable fees associated with this initial authorization have been paid for the current permit period. The annual fee for a General Permit is $150.00. The annual fee covers the permit period July 1 – June 30.

If you have any questions regarding this permit or the Storm Water Program, please call Robert Huber of the Environmental Complaints and Local Services Division at (405) 702-6222.

Sincerely,

Robert Huber
Programs Coordinator
Environmental Complaints and Local Services

Enclosure

c: Rick Austin, DEQ Regional Manager
Regional Office at Tulsa
Cecil Cotner, NPDES Coordinator, City of Tulsa

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Construction General Permit

AUTHORIZATION NO. OKR100068

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O. S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Grab Properties LLC
PO Box 52603
Tulsa, OK 74105-

Is authorized to discharge storm water from a construction site located in Tulsa County at:

Greenhill Subdivision
4401 S Lewis Ave
Tulsa,

The receiving body of water is Joe Creek.

The OPDES requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your construction site, which is subject to inspection. Proof of this authorization must be available at the construction site.

The Authorization shall become effective October 25, 2002 and will expire at midnight on September 12, 2007.

All terms and conditions of the modified OPDES Storm Water Construction General Permit OKR10, as published on September 13, 2002, shall apply to the recipient of this authorization.

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mark Derichsweiler, P. E., Engineering Manager
Watershed Planning and Toxics Control Section,
Water Quality Division

RECEIVED

ADDENDUM B – NOTICE OF INTENT

10/15/02 mj 10/16/02 AB See Reverse Side for Instructions OCT 1 1 2002

ECLS

Oklahoma Department of Environmental Quality

DEQ FORM 605-002A
September 13, 2002

DEQ OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Notice of Intent (NOI) for Storm Water Discharges Associated with CONSTRUCTION ACTIVITY on Sites of One to Five Acres and Sites of Five or More Acres Under the OPDES General Permit OKR10

SUBMISSION OF THIS NOTICE OF INTENT CONSTITUTES NOTICE THAT THE PARTY IDENTIFIED IN Part I OF THIS FORM INTENDS TO BE AUTHORIZED BY AN OPDES PERMIT ISSUED FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE STATE OF OKLAHOMA. BECOMING A PERMITTEE OBLIGATES SUCH DISCHARGER TO COMPLY WITH THE TERMS AND CONDITIONS OF THE PERMIT. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA, USING EPA FORM 3510-9.

I. Facility Owner/Operator Information (If you are a Co-permittee check this box) ☐

Name: Grab Properties, LLC Phone: (918) 742.0599

Address: P. O. Box 52603 Status of Owner/Operator: P

City: Tulsa State: OK Zip Code: 74105 E-mail Address ereeves@kallaygroup.com

II. Site Information

Name of the project GreenHill Subdivision Address: 4401 South Lewis Avenue

City Tulsa County: Tulsa ZIP Code: 74105

Telephone No.(918) 742.0599 S-29 T-19 R-13 Location: Latitude: N 36°6'0.1" Longitude: W 95°57'23.9"

Is the construction site within any of the corridors of the listed sensitive waters or watersheds (Addendum A)? Federal No State No (Yes or No)

Has Storm Water Pollution Prevention Plan (SWP3) been developed? ☑ Yes ☐ No Is SWP3 implemented? ☑ Yes ☐ No

Address of location of SWP3 for viewing: ☑ Address in I. Above. ☐ Address in II. Above. ☐ Other, please specify below.

Address: _____ Phone:( ) _____

City: _____ Zip Code: _____

Other Operational OPDES Number: _____ or NPDES Number: _____

Name of Receiving Water Body: Joe Creek

Is the Receiving Water Body on the DEQ 303(d) list? ☑ No ☐ Yes Is this facility/site on Indian Country land? ☑ No ☐ Yes (See Instructions)

Indicate the common plan construction size: **Between one and five acres** _____ **Five or More acres** ✓

Estimated area to be disturbed (to nearest acre): 9

10 / 1 / 2002	9 / 30 / 2003
Month Day Year	Month Day Year
Construction Start Date	Estimated Completion Date

Will construction (land disturbing activities) be conducted for Storm water control? ☑ Yes ☐ No

Is the Storm Water Pollution Prevention Plan in compliance with all Applicable local sediment and erosion plans? ☑ Yes ☐ No ☐ None

ENDANGERED SPECIES

Based on the instructions provided in Part X and Addendum A of the permit, is the proposed construction or land disturbing activity within the corridor of any of the listed sensitive waters or watersheds?
☐ Yes ☑ No
If the answer is yes, please refer to Part X. B. Step 2.
All permit eligibility requirements with regard to protection of endangered species through the indicated Section of Part I.B.3.e.(2) of the permit have been complied with, (check one or more boxes):
(a) ☑ (b) ☐ (c) ☐ (d) ☐ (e) ☐

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
I understand that continued coverage under this permit is contingent upon maintaining eligibility as provided for in Part I. B.

Name (Please Print): ED KALLAY Date: 10/9/02

Signature: [signature] Title Managing Member

For DEQ use only: Assigned Authorization Number: OKR10 0068

Invoice Number: 55090165 Amount Paid: _____

GRAB PROPERTIES LLC
PO BOX 52603
TULSA, OK 74105-

RECEIVED
2002 NOV 14 AM 9:46

PERMIT #: OKR100068

Department of Environmental Quality
Administrative Services - Accounts Receivable
P.O. Box 2036
Oklahoma City, OK 73101-2036

Please Choose One Form of Payment **SEND**

224594

☐ Check Made Payable to DEQ
☐ Money Order Made Payable to DEQ
☐ Visa or Mastercard No.:

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Exp. (mm/yy) ☐☐☐☐

Authorized Signature

_____

☐ Electronic Payment: Date of Transfer _____
Bank One; Routing #103000648 Account #100020052

☐ Purchase Order No.: _____

Revised 2/25/98

DEQ Form # 002-014

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

May 15, 2012

MATT RITCHIE
SHERWOOD CONSTRUCTION COMPANY, INC
PO BOX 10
CATOOSA, OK 74015

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number: OKR051574

Dear Mr. Ritchie:

The new Notice of Intent (NOI) for the facility listed below was received on September 21, 2011 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in Rogers County.

Facility:
GREENHILL CONCRETE PRODUCTS, INC
5411 N. 145TH E. AVE
OWASSO, OK 74055

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2012 will be invoiced for the full permit year (July 1, 2012 - June 30, 2013).

If you have any questions regarding this permit or the Storm Water Program, please call Matt Johnson of the Environmental Complaints and Local Services Division at (405)702-6182.

Sincerely,

Matt Johnson

Matt Johnson
Environmental Program Specialist
Environmental Complaints and Local Services

Enclosures

c: Claremore DEQ Office

printed on recycled paper with soy ink

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. **OKR051574**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Sherwood Construction Company, Inc

PO Box 10

Catoosa, OK 74015

Is authorized to discharge storm water from an industrial site located in Rogers County at

Greenhill Concrete Products, Inc

5411 N. 145th E Ave

Owasso, OK 74055

The receiving body of water is an unnamed tributary to Bird Creek

The OPDES requires permittees to have a Storm Water Pollution Plan (SWP3) which includes a description of appropriate control measures. These are applicable to your industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.
The Authorization shall become effective **December 13, 2011** and will expire at midnight September 4, 2016.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on September 5, 2011, shall apply to the recipient of this authorization.

Mark Derichsweiler, P.E., Engineering Manager
Watershed Planning and Storm Water Permitting
Water Quality Division

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Construction General Permit OKR10

AUTHORIZATION NO. **OKR1023328**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Greenhill Concrete Products Inc.

PO Box 10

Catoosa, OK 74015

Is authorized to discharge storm water from a construction site located in **Tulsa** County at

Macy's Fulfillment Center Project

7920 E 76th Street North

Owasso, OK 74055

The receiving body of water is an unnamed tributary to Ranch Creek

The OPDES permit requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your construction site, which is subject to inspection. Proof of this authorization must be available at the construction site.
The Authorization shall become effective **June 30, 2014** and will expire at midnight September 12, 2017.

All terms and conditions of the OPDES Storm Water Construction General Permit OKR10, as published on September 13, 2012, shall apply to the recipient of this authorization.

Richard McDaniel

Richard McDaniel, Environmental Programs Manager

Environmental Complaints and Local Services Division

July 2, 2014

Matt Ritchie
Greenhill Concrete Products Inc.
PO Box 10
Catoosa, OK 74015

Re: Authorization for Storm Water Discharge from Construction or Land Disturbing Activity
Authorization Number: OKR1023328

Dear Mr. Ritchie:

The new Notice of Intent (NOI) for the facility listed below was received on May 12, 2014 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with construction or land disturbing activities under the terms and conditions in accordance with Oklahoma Pollutant Discharge Elimination System Act (OPDES) Storm Water General Permit OKR10 for the following site located in Tulsa County.

Facility:

Macy's Fulfillment Center Project
7920 E 76th Street North
Owasso, OK 74055

All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2014 will be invoiced for the full permit year (July 1, 2014 - June 30, 2015).

If you have any questions regarding this permit or the Storm Water Program, please call Matt Johnson of the Environmental Complaints and Local Services Division at (405)702-6182.

Sincerely,

Matthew Johnson
Environmental Program Specialist
Environmental Complaints and Local Services

Enclosures

Oklahoma Department of Environmental Quality
Water Quality Division
INSPECTION REPORT – STORM WATER

ROUTING
1. ECLS-encode
2. WQD-encode
3. Central File

Inspection ID Number: 79024799 Activity type (check only one) ☐ **Construction** (OKR10) ☒ **Industrial** (OKR05)

Complaint Number: _____ OPDES Authorization No. **OKR10/OKR05** OKR051574 County: Rogers

SHERWOOD CONSTRUCTION COMPANY	5411 N 145th E Ave	Owasso	74055
Site/Facility Name	Site/Facility Address	City	Zip
Sherwood Construction Company Inc	**PO BOX 10**	**Catoosa**	**74015**
Owner Name	Address	City	Zip
Matt Ritchie	**Materials Manager**	**(918) 266-6861**	
Contact Name	Title	Phone Number	

The below listed references are cited in the General Permit for Construction Activities OKR10, and the General Permit for Storm Water discharges from Industrial Facilities OKR05.

SECTIONS	REFERENCES Const.	REFERENCES Ind.	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
PERMIT VERIFICATION	Part 1.4.1.C	Part 1.3.1	**Facility permitted: Authorization on file**	***01**		
	Part 1.4.1	Part 1.3.1.2	**SWPPP developed**	***02**		
	Part 4.3.2	Part 7.2	SWPPP posted at the construction or facility site or is locally available	03		
	Part 1.1.1.E	Part 1.3.1.3	**All applicable permit fees as established in OAC 252:606 have been paid**	***04**		
OPERATIONS	Part 4.5.11	Part 4.2.7	**BMP properly implemented in accordance with SWPPP**	***05**		
	Part 4.5.11.A	**N/A**	Silt barriers in place, effective and maintained	06		
	Part 4.5.11.A.3	**N/A**	Sediment basins (if required) adequate and maintained as required	07		
	Part 4.5.13	Part 4.2.10	Inspection of BMPs at required frequency and documented in SWPPP	08		
	Part 4.5.11.A.2	**N/A**	Stabilization established on completed areas	09		
	Part 4.5.11.A.1.C	Part 4.2.9	Offsite tracking of mud, sediment and/or materials prevented	10		
	Part 4.5.11.A	Part 4.2.9	Other control measures implemented	11		
	Part 3.1	Part 1.1.1	**Non-Allowable Discharges Prevented**	***12**		
	N/A	Part 5.1	Quarterly visual monitoring performed from representative outfalls	13		
	N/A	Part 5.2	Numeric Effluent Limitation Monitoring performed (if required)	14		
	N/A	Part 6.3	Annual Comprehensive Site Compliance Evaluation Report completed and submitted for previous permit year	15		
TERMINATION REQUIREMENTS						
TERMINATION / INSPECTION REQUEST	Part 1.5.2	Sector D Sector E Sector J	**Final Stabilization Completed**	***16**		Stormwater runoff covered under OKG11T212
	Part 1.5.2	Part 1.4.2	**Operations have ceased**	***17**		
	Part 1.5.3	N/A	Facility Ready to Terminate	18		
	N/A	Part 1.4.2	**Permitted discharges have ceased**	***19**		

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Robin Griffith — Employee ID# 1675
Environmental Specialist

David Rush, Operations Mgr.
Copy received by — Title

NOTICE TO COMPLY BY: ___/___/_____

FACILITY STATUS
- ☐ 19: Repeat Violation(s)
- ☐ 20: Under Current Enforcement
- ☒ 21: No Violation Noted

ACTION
- ☒ 30: None
- ☐ 31: Refer to WQD

Date: 3/20/14

Total number of items marked: 0

Number of critical items marked: 0

PURPOSE OF VISIT
- ☐ 22: Routine Inspection
- ☐ 23: Complaint
- ☐ 24: Follow-up
- ☐ 25: Emergency/Disaster
- ☐ 26: Training/Technical Assistance
- ☒ 27: Termination
- ☐ 28: Inspection Request
- ☐ 29: Referral Inspection

DEQ FORM # 640-523 (Rev.09/12/2012)

ITEM NO.	CRITICAL ITEMS
*01	**Facility permitted: Authorization on file** – A Permit must be obtained that authorizes the discharge of storm water and an NOI must be on file
*02	**SWPPP developed**– Each construction or industrial facility must have a pollution plan developed.
*04	All applicable permit fees as established in OAC 252:606 have been paid - In accordance with 252:606-3-4 (d) and Part 1.3.1(3) of the OKR05 or Part 1.4.1(E) of the OKR10, applicants must pay the application fee and applicable permit fee to receive authorization
*05	**BMP properly implemented in accordance with SWP3** - Best management practices (sediment control measures, good housekeeping) must be implemented as stated in the SWP3.
*12	**Non-Allowable Discharges Prevented** – Facilities or activities are authorized for the discharges for which the general permit applies. Any discharges that are not compliant with the eligibility conditions of the general permit are not authorized by the general permit. Ineligible discharges must be permitted by an appropriate permit (individual or alternative) to be compliant.
*16	**Final Stabilization completed** – Site must be stabilized to within 70% of the original natural vegetative ground cover. If the original natural vegetative ground cover was 50% then the required vegetative stabilization required is 35% (.50 X .70 = .35); temporary erosion and sediment control measures have been removed or will be removed at an appropriate time to ensure final stabilization is maintained. This requirement is also for the termination of asphalt batch plants (Sector D) and concrete batch plants (Sector E) of the Industrial Storm Water Permit (OKR05).
*17	**Operations have ceased** - Facility is closed and no longer in operation or there is no further construction activity occurring.
*19	**Permitted discharges have ceased** – The facility may be in operation but the authorized activity is no longer in operation (e.g. have changed SIC or NAC code)
	NON-CRITICAL ITEMS
03	SWPPP posted at the construction or facility site or locally available
06	Silt barriers in place, effective and maintained – All barriers described in the SWP3 must maintained and effective in controlling sediment leaving the construction site.
07	Sediment basins (if required) adequate and maintained as required – Sediment basins must be adequate size (3600 cubic feet/acre) and maintained (cleaned out when storage capacity is reduced by 50%). Required if stated in SWP3 or site is greater than 10 acres without site constraints.
08	Inspection of BMPs at required frequency and documented – Owner/operators of construction sites are required to conduct inspections of the sediment control measures every 14 days, maintain records of the inspections and modify the SWPPP as needed. For industrial facilities, the frequency is determined by the SWPPP and is to be completed by qualified personnel. The SWPPP is to be updated within 14 days of the inspection. All results and corrective actions must be documented in the SWPPP.
09	Vegetation established on completed areas – As sections of a project are completed vegetative stabilization is initiated.
10	Offsite tracking of mud and sediment prevented – Offsite tracking of mud and sediment by construction vehicles to be prevented. Areas that have evidence of offsite tracking are to be cleaned.
11	Other control measures implemented – Other control measures as stated in the General Permit must be met to minimize solid material from entering waters of the state. No solid materials, including floatable debris may be discharged. Generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized.
13	The requirements and procedures for quarterly visual monitoring are applicable to all industrial facilities covered under the general storm water permit, regardless of the facility's sector or SIC code (except those that qualify for No Exposure). The requirements and procedures are found in part 5.1.1 of the general permit and the results must be documented and maintained onsite with the SWPPP.
14	NELM Reports submitted and maintained - Table 1-3 of Part 1.3 of the general permit identifies industrial storm water discharges subject to Numeric Effluent Limitation Monitoring (NELM). Industry specific numerical limitations and compliance monitoring requirements are described in Part 12 of the general permit. The requirements and procedures are found in Part 5.2 and the results must be documented and maintained onsite with the SWPPP, and submitted to the DEQ on a Discharge Monitoring Report (DMR).
15	An Annual Comprehensive Site Compliance Evaluation Report (ACSCER) must be completed by all industrial facilities covered by the general permit. The ACSCER must be filed during the period October 2 to October 1 each year and submitted to DEQ no later than December 1 and maintained with the SWPPP. The requirements for completing the ACSCER are found in Part 4.8 of the general permit.
18	Facility has met the final stabilization requirements under permit OKR10 and may submit a Notice of Termination form (605-003)

ADDITIONAL COMMENTS

Oklahoma Department of Environmental Quality
Water Quality Division

INSPECTION REPORT – STORM WATER

Inspection ID Number: 79026535 Activity type (check only one) ☐ **Construction** (OKR10) ☐ **Industrial** (OKR05)

Complaint Number: _____ OPDES Authorization No. **OKR10/OKR05** OKR1023328 County: Tulsa

Macys Fulfillment Center Project	7920 E 76th Street North	Owasso	74055
Site/Facility Name	Site/Facility Address	City	Zip
Greenhill Concrete Products Inc	1640 South 101 E Ave	Tulsa	74128
Owner Name	Address	City	Zip
Matt Ritchie	Materials Manager	(918) 266-6861	
Contact Name	Title	Phone Number	

The below listed references are cited in the General Permit for Construction Activities OKR10, and the General Permit for Storm Water discharges from Industrial Facilities OKR05.

SECTIONS	REFERENCES Const.	REFERENCES Ind.	REQUIREMENT DESCRIPTIONS	ITEM	VIO	DESCRIPTIONS OF DEFICIENCIES
PERMIT VERIFICATION	Part 1.4.1.C	Part 1.3.1	**Facility permitted: Authorization on file**	***01**		
	Part 1.4.1	Part 1.3.1.2	**SWPPP developed**	***02**		
	Part 4.3.2	Part 7.2	SWPPP posted at the construction or facility site or is locally available	03		
	Part 1.1.1.E	Part 1.3.1.3	**All applicable permit fees as established in OAC 252:606 have been paid**	***04**		
OPERATIONS	Part 4.5.11	Part 4.2.7	**BMP properly implemented in accordance with SWPPP**	***05**		
	Part 4.5.11.A	N/A	Silt barriers in place, effective and maintained	06		
	Part 4.5.11.A.3	N/A	Sediment basins (if required) adequate and maintained as required	07		
	Part 4.5.13	Part 4.2.10	Inspection of BMPs at required frequency and documented in SWPPP	08		
	Part 4.5.11.A.2	N/A	Stabilization established on completed areas	09		
	Part 4.5.11.A.1.C	Part 4.2.9	Offsite tracking of mud, sediment and/or materials prevented	10		
	Part 4.5.11.A	Part 4.2.9	Other control measures implemented	11		
	Part 3.1	Part 1.1.1	**Non-Allowable Discharges Prevented**	***12**		
	N/A	Part 5.1	Quarterly visual monitoring performed from representative outfalls	13		
	N/A	Part 5.2	Numeric Effluent Limitation Monitoring performed (if required)	14		
	N/A	Part 6.3	Annual Comprehensive Site Compliance Evaluation Report completed and submitted for previous permit year	15		
TERMINATION REQUIREMENTS						
TERMINATION INSPECTION REQUEST	Part 1.5.2	Sector D Sector E Sector J	**Final Stabilization Completed**	***16**		Ok
	Part 1.5.2	Part 1.4.2	**Operations have ceased**	***17**		
	N/A	Part 1.4.2	**Permitted discharges have ceased**	***18**		Ok

Critical items are indicated in bold and by an asterisk (*) in the item column. All critical items marked must be corrected within 14 days or as specified by the inspector. Other violations must be corrected by the next regular inspection or by the date specified.

Environmental Specialist — 6700 Employee ID Number

Mail Copy Copy Received By — Title

Date: 8 / 13 / 2015

FACILITY STATUS

- ☐ 19: Repeat Violation(s)
- ☐ 20: Under Current Enforcement
- ☒ 21: No Violation Noted
- ☐ 32: Ready to Terminate

PURPOSE OF VISIT

- ☐ 22: Routine Inspection
- ☐ 23: Complaint
- ☐ 24: Follow-up
- ☐ 25: Emergency/Disaster
- ☐ 26: Training/Technical Assistance
- ☒ 27: Termination
- ☐ 28: Inspection Request
- ☐ 29: Referral Inspection

ACTION

- ☒ 30: None
- ☐ 31: Refer to WQD
- ☐ 32: Refer to ECLS Legal

Total number of items marked: **0**

Number of critical items marked: **0**

NOTICE TO COMPLY BY:

____ / ____ / ____

ITEM NO.	CRITICAL ITEMS
*01	**Facility permitted: Authorization on file** – A Permit must be obtained that authorizes the discharge of storm water and an NOI must be on file
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*16	**Final Stabilization completed** – Site must be stabilized to within 70% of the original natural vegetative ground cover. If the original natural vegetative ground cover was 50% then the required vegetative stabilization required is 35% (.50 X .70 = .35); temporary erosion and sediment control measures have been removed or will be removed at an appropriate time to ensure final stabilization is maintained. This requirement is also for the termination of asphalt batch plants (Sector D) and concrete batch plants (Sector E) of the Industrial Storm Water Permit (OKR05).
*17	**Operations have ceased** - Facility is closed and no longer in operation or there is no further construction activity occurring.
*18	**Permitted discharges have ceased** – The facility may be in operation but the authorized activity is no longer in operation (e.g. have changed SIC or NAC code)
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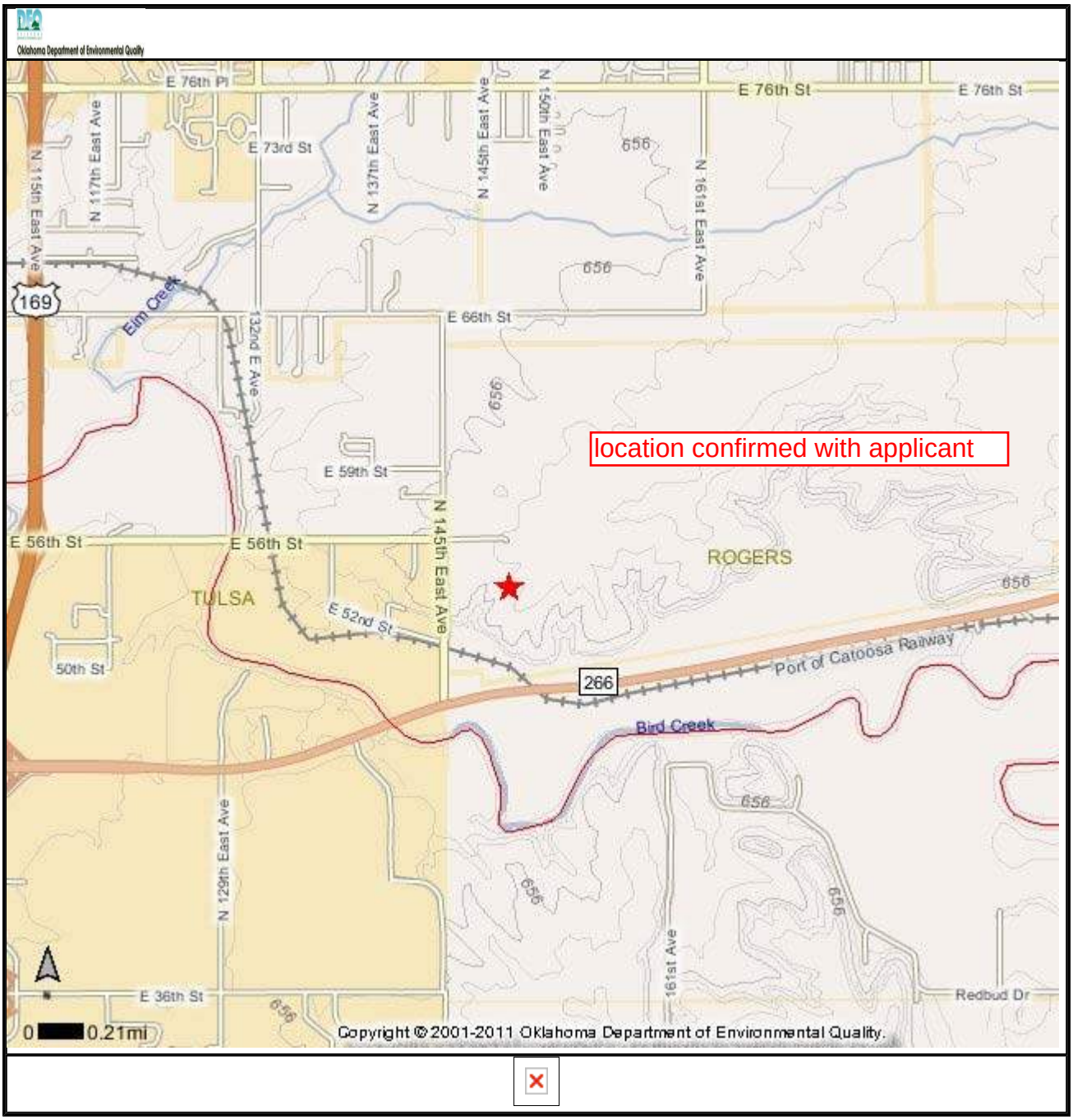
13	The requirements and procedures for quarterly visual monitoring are applicable to all industrial facilities covered under the general storm water permit, regardless of the facility's sector or SIC code (except those that qualify for No Exposure). The requirements and procedures are found in part 5.1.1 of the general permit and the results must be documented and maintained onsite with the SWPPP.
14	NELM Reports submitted and maintained - Table 1-3 of Part 1.3 of the general permit identifies industrial storm water discharges subject to Numeric Effluent Limitation Monitoring (NELM). Industry specific numerical limitations and compliance monitoring requirements are described in Part 12 of the general permit. The requirements and procedures are found in Part 5.2 and the results must be documented and maintained onsite with the SWPPP, and submitted to the DEQ on a Discharge Monitoring Report (DMR).
15	An Annual Comprehensive Site Compliance Evaluation Report (ACSCER) must be completed by all industrial facilities covered by the general permit. The ACSCER must be filed during the period October 2 to October 1 each year and submitted to DEQ no later than December 1 and maintained with the SWPPP. The requirements for completing the ACSCER are found in Part 4.8 of the general permit.

ADDITIONAL COMMENTS


Oklahoma Department of Environmental Quality
E 76th Pl
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N 150th East Ave
N 161st East Ave
656
169
Elm Creek
E 66th St
132nd E Ave
E 59th St
location confirmed with applicant
E 56th St
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TULSA
ROGERS
N 145th East Ave
E 52nd St
50th St
266
Port of Catoosa Railway
Bird Creek
N 129th East Ave
161st Ave
Redbud Dr
E 36th St
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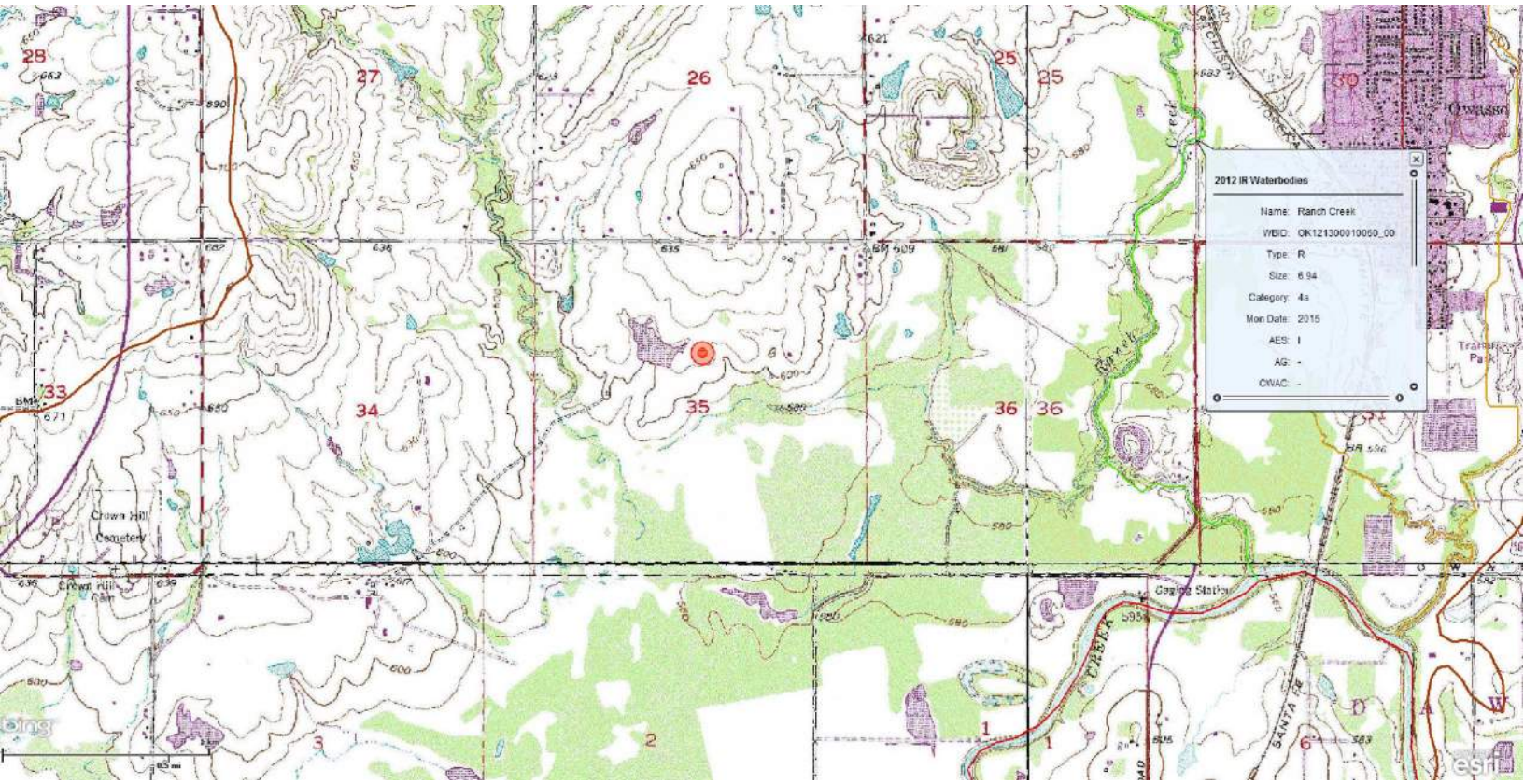
Copyright © 2001-2011 Oklahoma Department of Environmental Quality.



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V# 17004 $430.00 9-19-11

RECEIVED
SEP 21 2011
DEQ ECLS

See Reverse Side for Instructions

OPDES FORM 605-002B		Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☐ NEW APPLICATION ☑ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK R051574

I. Facility Owner/Operator Information

Name: Sherwood Construction Company, Inc. Phone: 918-266-6861

Mailing Address: P.O. Box 10 Status of Owner/Operator: P

City: Catoosa State: OK Zip Code: 74015 - Email Address: mattr@greenhill-concrete.com

II. Site Information

Name of the Facility: Greenhill Concrete Products, Inc.

Location of Facility: 5411 N. 145th E. Ave.

City: Owasso Zip Code: 74055 -

Latitude: 36.232 deg N Longitude: 95.810 deg W County: Rogers

III. Facility Activity

MS4 Operator: NA

Receiving Water Body: Unnamed Ephemeral Tributary of Bird Creek

Is the receiving water body on the DEQ 303(d) impaired water list? ☐ Yes ☑ No

SIC or Designated Activity Code and Sector Primary : 3273 Sector: E Secondary : Sector:

Is your SWP3 developed? ☑ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? N (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☑ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☐ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Matt Ritchie Date: 9/19/11

Signature: Title: Materials Manager

For DEQ use Only: Assigned Authorization Number: OKR05 1574

R# 11-01355

SHERWOOD CONSTRUCTION CO. INC.
P. O. BOX 10
CATOOSA, OK 74015-0010
PH. 918-266-6861

Bank of America
ACH R/T 103000017

17004

DATE 9-19-11

39-1/1030 OK
8460

PAY THE SUM 430 DOLLARS 00 CTS DOLLARS $ 430.00

TO THE ORDER OF DEQ

Connie Kanson

⑈017004⑈ ⑆103000017⑆ 140181087843⑈

SHERWOOD CONSTRUCTION CO. INC.
CATOOSA, OK 74015-0010

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW
IF NOT CORRECT, PLEASE NOTIFY US PROMPTLY. NO RECEIPT DESIRED

INVOICE DATE	INVOICE NO.	DESCRIPTION	TOTAL AMOUNT	DEDUCTIONS DISCOUNT	DEDUCTIONS FREIGHT	NET AMOUNT
		Permit R051574				

RECEIVED
SEP 21 2011
DEQ ECLS

RECEIVED

Seese, Julie

From: Matt Ritchie [matt.ritchie@sherwood.net]
Sent: Tuesday, October 25, 2011 8:55 AM
To: Seese, Julie
Cc: Randy Beeson
Subject: RE: noi form

Julie,

I apologize for the delay in my getting back to you on this as I have been out of town. Our intent is to renew permit number OKR051574, not to permit a new site. The location has not changed, but the established address is 5411 N. 145th E. Ave. Please let me or Randy Beeson know if you need anything else.

Thanks,
Matt Ritchie

From: Seese, Julie [mailto:Julie.Seese@deq.ok.gov]
Sent: Friday, October 21, 2011 10:05 AM
To: Matt Ritchie
Subject: noi form

Hi Matt,

Im looking at your NOI for the renewal of your storm water permit, the OKR051574 number on your form pulls up site address 5600 N 145th East Ave in our database. The address you wrote on the form does not match. (5411 N 145th E Ave). Also the Facility name is not the same. Are you trying to renew permit OKR051574 or do you need a new permit for a new site? Please clarify what you are needing so we can start the review process.

Thank you,
Julie Seese 405-702-6116

1 , 2 , 3 , 4 , 5 Return to Facility Detail

Form Approved OMB Number: 2025-0009

(IMPORTANT: Type or print; read instructions before compieting form)

Approvai Expires: 11/30/2017

EPA	FORM R	TRI Facility ID Number
United States Environmental Protection Agency	Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.	7412WGRNHL4912S
		Toxic Chemical, Category or Generic Name
		Lead

WHERE TO SEND COMPLETED FORMS:	1. TRI Data Processing Center P.O.Box 1513 Lanham, MD 20703-1513 ATTN: TOXIC CHEMICAL RELEASE INVENTORY	2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:	Revision (enter up to two code (s)) [] []	Withdrawal (enter up to two code (s)) [] []

Important: See Instructions to determine when "Not Appiicabie (NA)" boxes shouid be checked.

Part I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR : 2010

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you ciaiming the toxic chemicai identified on page 2 trade secret?	2.2 Is this copy	
[] Yes (Answer question 2.2;Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	[] Sanitized [] Unsanitized (Answer only if "YES" in 2.1)	

SECTION 3. CERTIFICATION (Important: Read and sign after compieting aii form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowiedge and beiief, the submitted information is true and compiete and that the amounts and vaiues in this report are accurate based on reasonabie estimates using data avaiiabie to the preparers of this report.

Name and officiai titie of owner/operator or senior management officiai:	Signature:	Date Signed:
Matt Ritchie Vice President Materials		5/13/2011

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	7412WGRNHL4912S
Facility or Establishment Name: Greenhill Concrete Products, Inc. Portable Concrete Plant		Facility or Establishment Name or Mailing Address(if different from street address): Greenhill Concrete Products, Inc. Portable Concrete Plant	
Street: 4912 S. Elwood Avenue		Mailing Address	
City/County/State/Zip Code: Tulsa/Tulsa/OK/741267412		City/State/Zip Code: Catoosa/OK/74015	Country (Non-US)

4.2	This report contains information for : (Important: check a or b; check c or d if appiicabie)	a. [X] An Entire facility	b. [ ] Part of a facility	c. [ ] A Federai faciiity	d. [ ] GOCO

4.3	Technical Contact name: Matt Ritchie	Email Address: mattr@greenhillconcrete.com		Telephone Number (include area code): (918) 266-6861	
4.4	Public Contact name: John Curtis	Email Address: johnc@sherwoodoklahoma.com		Telephone Number (include area code): (918) 266-6861	
4.5	NAICS Code (s)	a. 327320 (Primary)	b. c. d.	e.	f.
4.6	Dun and Bradstreet Number(s) (9 digits)	a. NA			
		b.			

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company: Sherwood Construction Company, Inc.	Parent Company Name Not Standard []		No U.S. Parent Company (for TRI Reporting purposes)	NA [ ]
5.2	Parent Company's Dun & Bradstreet Number	NA [ ]	NA		

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsoiete.

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 7439921
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Lead
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive). NA

1.3	Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category. (If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)																
	1	2	3	7	5	7	7	7	9	10	11	12	17	14	16	16	17
NA []	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
a. [ ] Produce b. [ ] Import					
If produce or import: c. [ ] For on-site use/processing d. [ ] For sale/distribution e. [ ] As a byproduct f. [ ] As an impurity		a. [ ] As a reactant b. [ ] As a formulation component c. [ ] As an article component d. [ ] Repackaging e. [X] As an impurity		a. [ ] As a chemical processing aid b. [ ] As a manufacturing aid c. [ ] Ancillary or other use	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	[01] (Enter two-digit code from instruction package.)

SECTION 5.QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [X]			
5.2	Stack or point air emissions	NA [ ]	0.001	C	
5.3	Discharges to receiving streams or water bodies (enter one name per box)	NA [ ]			
	Stream or Water Body Name	Reach Code (optional)			
5.3.1					
5.3.2					
5.3.3					
If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)					

***For Dioxin and Dioxin-like Compounds, report in grams/year**

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

****Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.**

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4-5.5	Disposal to land on-site			
5.4.1	Class I Underground Injection Wells	[X]		
5.4.2	Class II-V Underground Injection Wells	[X]		
5.5.1.A	RCRA subtitle C landfills	[X]		
5.5.1.B	Other landfills	[X]		
5.5.2	Land treatment/application farming	[X]		
5.5.3A	RCRA Subtitle C surface impoundments	[X]		
5.5.3B	Other surface impoundments	[ ]	1.95	C
5.5.4	Other disposal	[X]		

SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS	NA [ ]
6.2.1 Off-Site EPA Identification Number (RCRA ID No.)	
Off-Site Location Name	NA
Off-Site Address	

City		County		State		Zip		Country (Non-US)	
Is location under control of reporting facility or parent company?				[ ] Yes [X] No					

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3- or 4-character code(s)]			d. Waste Treatment Efficiency [enter 2 character code]
7A.1a	7A.1b	1.	2.	7A.1d
	3.	4.	5.	
	6.	7.	8.	

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.2/7A page number in this box. [ ] (example: 1,2,3, etc.)

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5, 6 Return to Facility Detail

Page S of 6

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1.	2.	3.

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

SECTION 8. SOURCE REDUCTION AND WASTE MANAGEMENT

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1 – 8.7 Production-Related Waste Managed					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				

8.1b	Total other on-site disposal or other releases		1.951	2	2
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1d	Total other off-site disposal or other releases				
8.2	Quantity used for energy recovery onsite				
8.3	Quantity used for energy recovery offsite				
8.4	Quantity recycled onsite				
8.5	Quantity recycled offsite				
8.6	Quantity treated onsite				
8.7	Quantity treated offsite				
8.8	Non-production-related waste managed**				
8.9	[X] Production ratio or [] Activity ratio (select one and enter value to right)				
8.10	Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.				

	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			Estimated annual reduction (Enter code(s)) (optional)
8.10.1	NA	a.	b.	c.	d.

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

***For Dioxin and Dioxin-like Compounds, report in grams/year**

1, 2, 3, 4, 5, 6 Return to Facility Detail

8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one Box)	Yes [X]	No [ ]

Comment Type	Comment Text	P2 Classification
N/A	Lead is a minor constituent of the fly ash used in the production of concrete for highway construction projects.	N/A

SECTION 9. MISCELLANEOUS INFORMATION

9.1	If you wish to submit any miscellaneous, additional, or optional information regarding your Form R submission, provide it here.

Comment Type	Comment Text	P2 Classification

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Includes quantities released to the environment or transferred off-site as a result of remedial actions, catastrophic events, or other one-time events not associated with production processes.

1, 2, 3, 4, 5 Return to Facility Detail

Form Approved OMB Number: 2025-0009

(IMPORTANT: Type or print; read instructions before compieting form)

Approval Expires: 11/30/2017

EPA	FORM R	TRI Facility ID Number
United States Environmental Protection Agency	Section 313 of the Emergency Pianning and Community Right-to-know Act of 1986, aiso known as Title III of the Superfund Amendments and Reauthorization Act.	7412WGRNHL4912S
		Toxic Chemical, Category or Generic Name: Nitrate compounds

WHERE TO SEND COMPLETED FORMS:	1. TRI Data Processing Center P.O.Box 1513 Lanham, MD 20703-1513 ATTN: TOXIC CHEMICAL RELEASE INVENTORY	2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:	Revision (enter up to two code (s))	Withdrawal (enter up to two code (s))
	[] []	[] []

Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.

Part I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR : 2010

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?	2.2 Is this copy	
[] Yes (Answer question 2.2;Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	[] Sanitized [] Unsanitized (Answer only if "YES" in 2.1)	

SECTION 3. CERTIFICATION (Important: Read and sign after compieting ail form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowiedge and beiief, the submitted information is true and complete and that the amounts and vaiues in this report are accurate based on reasonabie estimates using data available to the preparers of this report.

Name and officiai title of owner/operator or senior management official:	Signature:	Date Signed:
Matt Ritchie Vice President Materials		5/13/2011

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	7412WGRNHL4912S
Facility or Establishment Name: Greenhill Concrete Products, Inc. Portable Concrete Plant		Facility or Establishment Name or Mailing Address(if different from street address): Greenhill Concrete Products, Inc. Portable Concrete Plant	
Street: 4912 S. Elwood Avenue		Mailing Address	
City/County/State/Zip Code: Tulsa/Tulsa/OK/741267412		City/State/Zip Code: Catoosa/OK/74015	Country (Non-US)

4.2	This report contains information for : (Important: check a or b; check c or d if applicable)	a. [X] An Entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO

4.3	Technical Contact name: Matt Ritchie	Email Address: mattr@greenhillconcrete.com	Telephone Number (include area code): (918) 266-6861	
4.4	Public Contact name: John Curtis	Email Address: johnc@sherwoodoklahoma.com	Telephone Number (include area code): (918) 266-6861	

4.5	NAICS Code (s)	a. 327320 (Primary)	b.	c.	d.	e.	f.

4.6	Dun and Bradstreet Number(s) (9 digits)	a. NA
		b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company: Sherwood Construction Company, Inc.	Parent Company Name Not Standard []	No U.S. Parent Company (for TRI Reporting purposes)	NA [ ]	
5.2	Parent Company's Dun & Bradstreet Number	NA [ ]	NA		

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 2 below.)

2.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N511
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Nitrate compounds
2.1	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive). NA

1.4	Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category. (If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)																
NA []	7	2	3	7	5	5	7	2	9	10	11	12	13	14	15	16	17
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
a. [ ] Produce b. [ ] Import					
If produce or import: c. [ ] For on-site use/processing d. [ ] For sale/distribution e. [ ] As a byproduct f. [ ] As an impurity		a. [ ] As a reactant b. [ ] As a formulation component c. [ ] As an article component d. [ ] Repackaging e. [ ] As an impurity		a. [X] As a chemical processing aid b. [ ] As a manufacturing aid c. [ ] Ancillary or other use	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	[03] (Enter two-digit code from instruction package.)

SECTION 5.QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [X]			
5.2	Stack or point air emissions	NA [X]			
5.3	Discharges to receiving streams or water bodies (enter one name per box)	NA [ ]			
	Stream or Water Body Name	Reach Code (optional)			
5.3.1					
5.3.2					
5.3.3					
If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)					

***For Dioxin and Dioxin-like Compounds, report in grams/year**

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

****Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.**

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4-5.5	Disposal to land on-site			
5.4.1	Class I Underground Injection Wells	[X]		
5.4.2	Class II-V Underground Injection Wells	[X]		
5.5.1.A	RCRA subtitle C landfills	[X]		
5.5.1.B	Other landfills	[X]		
5.5.2	Land treatment/application farming	[X]		
5.5.3A	RCRA Subtitle C surface impoundments	[X]		
5.5.3B	Other surface impoundments	[ ]	19.3	C
5.5.4	Other disposal	[X]		

SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS	NA [ ]
6.2.1 Off-Site EPA Identification Number (RCRA ID No.)	
Off-Site Location Name	NA
Off-Site Address	

City		County		State		Zip		Country (Non-US)	
Is location under control of reporting facility or parent company?				[ ] Yes [X] No					

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3- or 4-character code(s)]			d. Waste Treatment Efficiency [enter 2 character code]
7A.1a	7A.1b	1.	2.	7A.1d
	3.	4.	5.	
	6.	7.	8.	

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.2/7A page number in this box. [ ] (example: 1,2,3, etc.)

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5, 6 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1.	2.	3.

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

SECTION 8. SOURCE REDUCTIDN AND WASTE MANAGEMENT

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1 – 8.7 Production-Related Waste Managed					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				

8.1b	Total other on-site disposal or other releases		19.3	20	20
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1d	Total other off-site disposal or other releases				
8.2	Quantity used for energy recovery onsite				
8.3	Quantity used for energy recovery offsite				
8.4	Quantity recycled onsite				
8.5	Quantity recycled offsite				
8.6	Quantity treated onsite				
8.7	Quantity treated offsite				
8.8	Non-production-related waste managed**				
8.9	[X] Production ratio or [] Activity ratio (select one and enter value to right)				
8.10	Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.				

	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			Estimated annual reduction (Enter code(s)) (optional)
8.10.1	NA	a.	b.	c.	d.

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

***For Dioxin and Dioxin-like Compounds, report in grams/year**

1, 2, 3, 4, 5, 6 Return to Facility Detail

8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one Box)			Yes [ ]	No [X]
	Comment Type	Comment Text	P2 Classification		
SECTION 9. MISCELLANEOUS INFORMATION					
9.1	If you wish to submit any miscellaneous, additional, or optional information regarding your Form R submission, provide it here.				
	Comment Type	Comment Text	P2 Classification		

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Inciudes quantities released to the environment or transferred off-site as a result of remediai actions, catastrophic events, or other one-time events not associated with production processes.

1, 2, 3, 4, 5 Return to Facility Detail

Form Approved DMB Number: 2025-0009

(IMPORTANT: Type or print; read instructions before completing form) Approval Expires: 11/30/2017

EPA	FORM R	TRI Facility ID Number
		7412WGRNHL4912S
United States Environmental Protection Agency	Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.	Toxic Chemical, Category or Generic Name
		Lead

WHERE TO SEND COMPLETED FORMS:	1. TRI Data Processing Center P.O.Box 1513 Lanham, MD 20703-1513 ATTN: TOXIC CHEMICAL RELEASE INVENTORY	2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:	Revision (enter up to two code(s)) [ ] [ ]	Withdrawal (enter up to two code (s)) [ ] [ ]

Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.

Part I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR : 2011

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?	2.2 Is this copy	
[ ] Yes (Answer question 2.2;Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	[ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)	

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature:	Date Signed:
VP Materials		4/26/2012

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility ID Number	7412WGRNHL4912S

Facility or Establishment Name	Facility or Establishment Name or Mailing Address(if different from street address)	
Greenhill Concrete Products, Inc. Portable Concrete Plant	Greenhill Concrete Products, Inc. Portable Concrete Plant	
Street 4912 S. Elwood Avenue	Mailing Address	
City/County/State/Zip Code Tulsa/Tulsa/OK/741267412	City/State/Zip Code Catoosa/OK/74015	Country (Non-US)

4.2	This report contains information for : (Important: check a or b; check c or d if appiicabie)	a. [X] An Entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO

4.3	Technical Contact name	MATT RITCHIE	Email Address MATTR@GREENHILLCONCRETE.COM				Telephone Number (include area code) (918) 266-6861	
4.4	Public Contact name	JOHN CURTIS	Email Address JOHNC@SHERWOODOKLAHOMA.COM				Telephone Number (include area code) (918) 266-6861	
4.5	NAICS Code (s)	a. 327320 (Primary)	b.	c.	d.		e.	f.

4.6	Dun and Bradstreet Number(s) (9 digits)	a. NA
		b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	SHERWOOD CONSTRUCTION CO INC	Parent Company Name Not Standard []	No U.S. Parent Company (for TRI Reporting purposes)	NA [ ]
5.2	Parent Company's Dun & Bradstreet Number	NA [ ]	NA		

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

1, 2, 3, 4, 5 Return to Facility Detail Page 2 of 5

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 7439921
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Lead
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive). NA
1.4	Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category. (If there are any numbers in boxes 1-17, then every field must be filled in with either 0 or some number between 0.01 and 100. Distribution should be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA []	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: OO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
	a. [ ] Produce b. [ ] Import				

If produce or import:		
c. [ ] For on-site use/processing	a. [ ] As a reactant	a. [ ] As a chemical processing aid
d. [ ] For sale/distribution	b. [ ] As a formulation component	b. [ ] As a manufacturing aid
e. [ ] As a byproduct	c. [ ] As an article component	c. [ ] Ancillary or other use
f. [ ] As an impurity	d. [ ] Repackaging	
	e. [X] As an impurity	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	[01] (Enter two-digit code from instruction package.)

SECTION S.QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [X]			
5.2	Stack or point air emissions	NA [ ]	0.00061	C	
5.3	Discharges to receiving streams or water bodies (enter one name per box)	NA [ ]			
	Stream or Water Body Name	Reach Code (optional)			
5.3.1					
5.3.2					
5.3.3					
If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)					

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5 Return to Facility Detail Page 3 of 5

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility IO Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4-5.5	Oisposal to land on-site			
5.4.1	Class I Underground Injection Wells	[X]		
5.4.2	Class II-V Underground Injection Wells	[X]		
5.5.1.A	RCRA subtitle C landfills	[X]		
5.5.1.B	Other landfills	[X]		
5.5.2	Land treatment/application farming	[X]		
S.5.3A	RCRA Subtitle C surface Impoundments	[X]		
5.5.3B	Other surface impoundments	[ ]	0.34	C
5.5.4	Other disposal	[X]		

SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS NA [ ]

6.2.1 Off-Site EPA Identification Number (RCRA IO No.)									
Off-Site Location Name	**NA**								
Off-Site Address									
City		**County**		**State**		**Zip**		**Country (Non-US)**	
Is location under control of reporting facility or parent company?				**[ ] Yes [X] No**					

***For Dioxin and Dioxin-like Compounds, report in grams/year**

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

****Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.**

1, 2, 3, 4, 5 Return to Facility Detail Page 4 of 5

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3- or 4-character code(s)]			d. Waste Treatment Efficiency [enter 2 character code]
7A.1a	7A.1b	1.	2.	7A.1d
	3.	4.	5.	
	6.	7.	8.	

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.2/7A page number in this box. [ ] (example: 1,2,3, etc.)

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Lead

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1.	2.	3.

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

SECTION 8. SOURCE REDUCTION AND WASTE MANAGEMENT

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1 – 8.7 Production-Related Waste Managed					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1b	Total other on-site disposal or other releases	1.951	0.34061	1	1
8.1c					

	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1d	Total other off-site disposal or other releases				
8.2	Quantity used for energy recovery onsite				
8.3	Quantity used for energy recovery offsite				
8.4	Quantity recycled onsite				
8.5	Quantity recycled offsite				
8.6	Quantity treated onsite				
8.7	Quantity treated offsite				

8.8	Non-production-related waste managed**	
8.9	[X] Production ratio or [] Activity ratio (select one and enter value to right)	0.17
8.10	Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.	

	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			Estimated annual reduction (Enter code(s)) (optional)
8.10.1	NA	a.	b.	c.	d.

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

1, 2, 3, 4, 5, 6 Return to Facility Detail Page 6 of 6

8.11	Is additional information on source reduction, recycling, or pollution control activities inciuded with this report ? (Check one Box)	Yes [X]	No [ ]

Comment Type	Comment Text	P2 Classification
N/A	Usage of flyash (lead source) is a function of contract or customer specifications.	N/A

SECTION 9. MISCELLANEOUS INFORMATION

9.1	If you wish to submit any miscellaneous, additional, or optional information regarding your Form R submission, provide it here.

Comment Type	Comment Text	P2 Classification

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Includes quantities released to the environment or transferred off-site as a result of remedial actions, catastrophic events, or other one-time events not associated with production processes.

1, 2, 3, 4, 5 Return to Facility Detail

Form Approved OMB Number: 2025-0009

(IMPORTANT: Type or print; read instructions before completing form) Approval Expires: 11/30/2017

EPA	FORM R	TRI Facility IO Number
		7412WGRNHL4912S
United States Environmental Protection Agency	Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.	Toxic Chemical, Category or Generic Name
		Nitrate compounds

WHERE TO SEND COMPLETED FORMS:	1. TRI Data Processing Center P.O.Box 1513 Lanham, MD 20703-1513 ATTN: TOXIC CHEMICAL RELEASE INVENTORY	2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:	Revision (enter up to two code(s)) [ ] [ ]	Withdrawal (enter up to two code (s)) [ ] [ ]

Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.

Part I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR : 2011

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?	2.2 Is this copy	
[ ] Yes (Answer question 2.2;Attach substantiation forms) [X] NO (Do not answer 2.2; Go to Section 3)	[ ] Sanitized [ ] Unsanitized (Answer only if "YES" in 2.1)	

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature:	Date Signed:
VP Materials		4/26/2012

SECTION 4. FACILITY IDENTIFICATION

4.1		TRI Facility IO Number	7412WGRNHL4912S

Facility or Establishment Name	Facility or Establishment Name or Mailing Address(if different from street address)	
Greenhill Concrete Products, Inc. Portable Concrete Plant	Greenhill Concrete Products, Inc. Portable Concrete Plant	
Street 4912 S. Elwood Avenue	Mailing Address	
City/County/State/Zip Code Tulsa/Tulsa/OK/741267412	City/State/Zip Code Catoosa/OK/74015	Country (Non-US)

4.2	This report contains information for : (Important: check a or b; check c or d if applicable)	a. [X] An Entire facility	b. [ ] Part of a facility	c. [ ] A Federal facility	d. [ ] GOCO

4.3	Technical Contact name	MATT RITCHIE	Email Address MATTR@GREENHILLCONCRETE.COM		Telephone Number (include area code) (918) 266-6861		
4.4	Public Contact name	JOHN CURTIS	Email Address JOHNC@SHERWOODOKLAHOMA.COM		Telephone Number (include area code) (918) 266-6861		
4.5	NAICS Code (s)	a. 327320 (Primary)	b.	c.	d.	e.	f.

4.6	Dun and Bradstreet Number(s) (9 digits)	a. NA
		b.

SECTION 5. PARENT COMPANY INFORMATION

5.1	Name of Parent Company	SHERWOOD CONSTRUCTION CO INC	Parent Company Name Not Standard []	No U.S. Parent Company (for TRI Reporting purposes)	NA [ ]
5.2	Parent Company's Dun & Bradstreet Number	NA [ ]	NA		

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

1 , 2 , 3 , 4 , 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 1. TOXIC CHEMICAL IDENTITY (Important DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N511
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Nitrate compounds
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes". Generic Name must be structurally descriptive). NA
1.4	Distribution of Each Member of the Dioxin and Dioxin-like Compounds Category. (If there are any numbers in boxes 1-17, then every fieid must be filled in with either 0 or some number between 0.01 and 100. Distribution shouid be reported in percentages and the total should equal 100%. If you do not have speciation data available, indicate NA.)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NA []	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.)

3.1	Manufacture the toxic chemical:	3.2	Process the toxic chemical:	3.3	Otherwise use the toxic chemical:
	a. [ ] Produce b. [ ] Import				

If produce or import:		
c. [ ] For on-site use/processing d. [ ] For sale/distribution e. [ ] As a byproduct f. [ ] As an impurity	a. [ ] As a reactant b. [ ] As a formulation component c. [ ] As an article component d. [ ] Repackaging e. [ ] As an impurity	a. [X] As a chemical processing aid b. [ ] As a manufacturing aid c. [ ] Ancillary or other use

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME OURING THE CALENDAR YEAR

4.1	[03] (Enter two-digit code from instruction package.)

SECTION 5.QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA [X]			
S.2	Stack or point air emissions	NA [X]			
5.3	Discharges to receiving streams or water bodies (enter one name per box)	NA [ ]			
	Stream or Water Body Name	Reach Code (optional)			
5.3.1					
5.3.2					
5.3.3					
If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 5.3 page number in this box. [ ] (example: 1,2,3, etc.)					

*For Oioxin and Oioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)
5.4-5.5	Disposal to land on-site			
5.4.1	Class I Underground Injection Wells	[X]		
5.4.2	Class II-V Underground Injection Wells	[X]		
5.5.1.A	RCRA subtitle C landfills	[X]		
5.5.1.B	Other landfills	[X]		
5.5.2	Land treatment/application farming	[X]		
5.5.3A	RCRA Subtitle C surface impoundments	[X]		
5.5.3B	Other surface impoundments	[ ]	17.8	C
5.5.4	Other disposal	[X]		

SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS NA [ ]

6.2.1 Off-Site EPA Identification Number (RCRA ID No.)									
Off-Site Location Name	**NA**								
Off-Site Address									
City		**County**		**State**		**Zip**		**Country (Non-US)**	
Is location under control of reporting facility or parent company?				**[ ] Yes [X] No**					

***For Dioxin and Dioxin-like Compounds, report in grams/year**

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

****Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.**

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year*) (enter range code** or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1.
2.	2.	2.
3.	3.	3.
4.	4.	4.

SECTION 7A. ONSITE WASTE TREATMENT METHDDS AND EFFICIENCY

[ ] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3- or 4-character code(s)]			d. Waste Treatment Efficiency [enter 2 character code]
7A.1a	7A.1b	1.	2.	7A.1d
	3.	4.	5.	
	6.	7.	8.	

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box [ ] and indicate the Part II, Section 6.2/7A page number in this box. [ ] (example: 1,2,3, etc.)

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

1, 2, 3, 4, 5, 6 Return to Facility Detail

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 7412WGRNHL4912S Toxic Chemical, Category or Generic Name Nitrate compounds

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1.	2.	3.

SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

SECTION 8. SOURCE REDUCTION AND WASTE MANAGEMENT

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1 – 8.7 Production-Related Waste Managed					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1b	Total other on-site disposal or other releases	19.3	17.8	19	19
8.1c					

	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1d	Total other off-site disposal or other releases				
8.2	Quantity used for energy recovery onsite				
8.3	Quantity used for energy recovery offsite				
8.4	Quantity recycled onsite				
8.5	Quantity recycled offsite				
8.6	Quantity treated onsite				
8.7	Quantity treated offsite				

8.8	Non-production-related waste managed**	
8.9	[X] Production ratio or [] Activity ratio (select one and enter value to right)	0.92
8.10	Did your faciiity engage in any source reductlon activities for this chemicai during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.	

	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			Estimated annuai reduction (Enter code(s)) (optlonai)
8.10.1	NA	a.	b.	c.	d.

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

*For Dioxin and Dioxin-like Compounds, report in grams/year

1, 2, 3, 4, 5, 6 Return to Facility Detail

8.11	Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one Box)		Yes [ ]	No [X]
	Comment Type	Comment Text	P2 Classification	
SECTION 9. MISCELLANEOUS INFORMATION				
9.1	If you wish to submit any miscellaneous, additional, or optional information regarding your Form R submission, provide it here.			
	Comment Type	Comment Text	P2 Classification	

*For Dioxin and Dioxin-like Compounds, report in grams/year

EPA Form 9350-1 (Rev. 06/2014) - Previous editions are obsolete.

**Includes quantities released to the environment or transferred off-site as a result of remedial actions, catastrophic events, or other one-time events not associated with production processes.

CONFIDENTIALITY NOTICE:

The Oklahoma Department of Environmental Quality ("DEQ") is providing the accompanying electronically stored information ("ESI") pursuant to the Oklahoma Open Records Act, 51 O.S. §24A.1 *et seq*. If you receive ESI that the DEQ is allowed or required to keep confidential, or is otherwise not subject to the Oklahoma Open Records Act, the disclosure thereof by the DEQ was inadvertent and unintentional and the DEQ and/or the party creating the ESI has not waived the claim of confidentiality or privilege.

Confidential and privileged information includes but is not limited to trade secrets, records protected by a state evidentiary privilege, attorney work product, attorney client privilege, joint defense, joint confidentiality, and/or attorney settlement negotiations. If you received information marked confidential or privileged, or if for any other reason you are aware or believe that a claim of confidentiality or privilege has been made or may be applicable, DO NOT READ THE ESI; DO NOT USE, DISCLOSE, OR FORWARD THE ESI; promptly sequester, destroy or return the ESI and notify:

Sarah Penn, Deputy General Counsel
Office of the General Counsel
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
Office: (405) 702-7100
Fax: (405) 702-7199.

See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.
OPDES Permit Authorization Number: ~~OKR050659~~ OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 12-23-14

Signature: Bill Williams Title: Director of Facilities

1-15-15
SP
1 Reviewed

RECEIVED
JAN 14 2015
ECLS

ENTERED 2/5/15 SP

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2014

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
	None		

✓ What must you do to correct the deficiencies that remain uncorrected?

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☐ No ☐ All BMPs were being implemented ☒

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ☐ No ☒

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges at all the facilities during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)

Yes ☐ No ☐ Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?

Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?

Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

✓ Is there any required revisions to the SWP3 resulting from the inspection?

Yes ☐ No ☒

See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: ~~OKR050659~~ OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 2-12-13

Signature: Bill Williams Title: Director of Facilities

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FEB 19 2013
ECLS

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2012

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
	None		

✓ What must you do to correct the deficiencies that remain uncorrected?

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☐ No ☐ All BMPs were being implemented ☒

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ☐ No ☒

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges at all the facilities during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)

Yes ☐ No ☐ Number 3

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?

Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?

Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

✓ Is there any required revisions to the SWP3 resulting from the inspection?

Yes ☐ No ☒

Print Form | Submit by Email

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.
OPDES Permit Authorization Number: ~~OKR050659~~ OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 1-30-09

Signature: Bill Williams Title: EHS Manager

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FEB 02 2009
DEQ ECLS

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2008.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
12-31-2008	Drums stored outside of containment	Yes	1-30-2009

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☐ No ☒

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☒ No ☐ All BMPs were being implemented ☐

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

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See Page 4 for Instructions

DEQ FORM 605-006	OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY	**Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)**

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: ~~OKR050659~~ OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bob McDonald Date: 2-13-08

Signature: Bob McDonald Title: Plant Supervisor

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2007.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
8-06-2007	Drums outside of berm	Yes	8-07-2007
8-06-2007	Berm drain valve left open	Yes	8-07-2007
8-06-2007	Labels needed on drums	Yes	8-07-2007

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☒ No ☐ All BMPs were being implemented ☐

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

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See Page 4 for Instructions

DEQ FORM 605-006

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74017

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Mike Kennedy Date: 2/13/07

Signature: Title: Plan/ECU Engineer

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Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2006.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
04-12-06	Elevate outside drums off groun	Yes	04-14-06

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☒ No ☐ All BMPs were being implemented ☐

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☒ No deficiencies noted in any inspection ☐

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5-N/A
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6-N/A
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

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W.P. DEC 0 6 2005

See Reverse Side for Instructions

DEQ FORM 605-006

October 2, 2000

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions Included With This Form.

Section I.

OPDES Permit Authorization Number: OKGP00349

Section II. Facility Operator Information:

Name: Limco-Airepair, Inc. Phone: (918)445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code 74017

III. Facility Location:

Name: Limco-Airepair, Inc. Phone: (918)445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39-05'16" N Longitude: 96-00'03" W

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Ronald Lee Date: 11/30/2005

Signature: Ronald Lee Title Mgr

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: October 2, 2004-October 2, 2005

- How many routine facility inspections did you perform during the reporting period? 4
- How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection? None

Date Deficiencies Corrected (Y or N) Date Corrected NA

What must you do to correct the deficiencies that remain uncorrected? NA

- Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
  Yes X No
- If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
  Yes ____ No____ All BMPs were being implemented X
- Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
  Yes ____ No____ No deficiencies noted an any inspection X
- Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
  Yes ____ No____ All BMPs were effective X
- If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?
  Yes ____ No____ All BMPs were being effective X
- At any time during the reporting period, did you discover any illicit discharges from your facility?
  Yes ____ No X
- Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
  Yes ____ No____ Permit applied for ____ No known illicit discharges X
- Have any significant spills or leaks occurred at your facility during the reporting period?
  Yes ____ No X
- If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
  Yes ____ No X

See Reverse Side for Instructions

DEQ FORM 605-006
October 2, 2000

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions Included With This Form.

Section I.

OPDES Permit Authorization Number: OKGP00349

Section II. Facility Operator Information:

Name: Limco-Airepair, Inc. Phone: (918)445-4300
Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code 74017

III. Facility Location:

Name: Limco-Airepair, Inc. Phone: (918)445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39-05'16" N Longitude: 96-00'03" W

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bob Johnson Date: 12/1/04

Signature: BJ Title Vice President

RECEIVED DEC 0 7 2004

RECEIVED
DEC 0 2 2004
WATER QUALITY DIVISION

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: October 2, 2003-October 2, 2004

- How many routine facility inspections did you perform during the reporting period? 4
- How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected(Y or N)	Date Corrected

What must you do to correct the deficiencies that remain uncorrected?

_____

_____

- Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
  Yes X No_____
- If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
  Yes _____ No_____ All BMPs were being implemented X
- Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
  Yes _____ No_____ No deficiencies noted an any inspection X
- Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
  Yes _____ No_____ All BMPs were effective X
- If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?
  Yes _____ No_____ All BMPs were being effective X
- At any time during the reporting period, did you discover any illicit discharges from your facility?
  Yes _____ No X
- Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
  Yes _____ No_____ Permit applied for _____ No known illicit discharges X
- Have any significant spills or leaks occurred at your facility during the reporting period?
  Yes _____ No X
- If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
  Yes _____ No X

RECEIVED

DEC 0 2 2004

WATER QUALITY DIVISION

Part B. Page 2

- If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
  Yes _____ No_____ No spills or leaks occurred__X___
- Have all known spills or leaks been cleaned up or otherwise prevented form contaminating storm water that would be discharged under the authority of this permit?
  Yes _____ No_____ No spills or leaks occurred__X___
- How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1.1 - Quarterly visual Monitoring)
  Number__4____
- Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
  Yes ____ No__X__

If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?

- ☐ New pollutant source (including exposure of previously unexposed material).
- ☐ Failure to implement or maintain an existing BMP.
- ☐ Less than expected performance from a BMP.
- ☐ No BMP was selected to deal with that problem.
- ☒ N/A (No problems identified)

If your visual monitoring indicated a potential problem, what have you done to resolve the problem?

- ☐ Eliminated exposure or pollutant source.
- ☐ Modified existing BMP.
- ☐ Added new BMP.
- ☐ Plan to address problem by end of current reporting year.
- ☐ Nothing planned.
- ☒ N/A (No problems identified)

Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No__X__

If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
1.			
2.			
3.			

RECEIVED
DEC 0 2 2004
WATER QUALITY DIVISION

LIMCO Airepair, Inc. & Aeroduct

November 23, 2004

DEQ WQD
Storm Water Unit
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Annual Comprehensive Site Compliance Evaluation Report

Dear Sir or Madam:

Enclosed is our completed Annual Comprehensive Site Compliance Evaluation Report. If you have any questions or require further information please feel free to call me (918)445-4300.

Sincerely,

Bob Johnson
Vice President

RECEIVED
DEC 0 2 2004
WATER QUALITY DIVISION

RECEIVED DEC 0 7 2004

LIMCO-AIREPAIR, INC. 5304 SO. LAWTON AVE. TULSA, OKLAHOMA 74107

November 14, 2001

RECEIVED
NOV 16 2001
WATER QUALITY DIVISION

DEQ
Storm Water Program
Water Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Re: Annual Site Compliance Report for: OKGP 00349

Please find enclosed the completed Annual Site Compliance Evaluation Report for Limco Airepair International, Inc. located in Tulsa, Oklahoma. The facility's mailing address is 5304 S. Lawton, Tulsa, OK 74107.

Please feel free to contact me at (918) 261- 5638 if there are any questions regarding this report.

Sincerely,

Michelle Barnes
SherWill EH&S Consultants

cc: Bob Sherwin

SHERWILL
ENVIRONMENTAL
HEALTH & SAFETY
CONSULTANTS

SherWill, Inc.
10388 E. 21st Street
Tulsa, OK 74129

Answ. Serv. (918) 660-5103
Office/Fax (918) 622-2782

See Reverse Side for Instructions

DEQ FORM 605-006 October 2, 2000

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions On The Back Of Form.

Section I.

OPDES Permit Authorization Number: OKGP00349

Section II. Facility Operator Information:

Name: Limco Airepair International Inc. Phone: (918) 445-4300

Address: 2304 DW 5304 S. Lawton

City: Tulsa County: Tulsa Zip Code 74107

III. Facility Location:

Name: Limco Airepair International, Inc. Phone: (918) 445-4300

Address: 5304 5304 S. Lawton

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 36.09 Longitude: -96.00

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Robert E Johnson Date: 11/14/01

Signature: Title Vice President

RECEIVED

NOV 16 2001

WATER QUALITY DIVISION

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: Oct. '00 - Oct. '01.

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
None			

✓ What must you do to correct the deficiencies that remain uncorrected?

N/a

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?

Yes ✓ No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?

Yes _____ No_____ All BMPs were being implemented ✓

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?

Yes _____ No_____ No deficiencies noted an any inspection ✓

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?

Yes _____ No_____ All BMPs were effective ✓

✓ If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?

Yes _____ No_____ All BMPs were being effective ✓

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?

Yes _____ No ✓

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?

Yes _____ No_____ Permit applied for _____ No known illicit discharges ✓

✓ Have any significant spills or leaks occurred at your facility during the reporting period?

Yes _____ No ✓

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?

Yes _____ No N/a

RECEIVED

NOV 16 2001

WATER QUALITY DIVISION

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred ✓

✓ Have all known spills or leaks been cleaned up or otherwise prevented form contaminating storm water that would be discharged under the authority of this permit?
Yes _____ No_____ No spills or leaks occurred ✓

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1.1 - Quarterly visual Monitoring)
Number 0 - no rain events were available during business hours.

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____ No n/a

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
(5) N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1. Eliminated exposure or pollutant source.
2. Modified existing BMP.
3. Added new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
(6) N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No_____ n/a

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

RECEIVED
NOV 16 2001
WATER QUALITY DIVISION

LIMCO Airepair, Inc.
& Aeroduct

November 11, 2003

Oklahoma Department of Environmental Quality
Storm Water Program
Water Quality Division
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Annual Comprehensive Site Compliance Evaluation Report

Dear Sir or Madam:

Enclosed is our completed Annual Comprehensive Site Compliance Evaluation Report. If you have any questions or require further information please feel free to call me.

Sincerely,

Michael Lowther

Michael Lowther
Operations Manager

RECEIVED
NOV 18 2003
DEQ ECLS

LIMCO-AIREPAIR, INC. 5304 SO. LAWTON AVE. TULSA, OKLAHOMA 74107 USA
PHONE (918) 445-4300 - - FAX (918) 445-2210

DEQ FORM
605-006 11/18/03 MP
October 2, 2000

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions Included With This Form.

- **Section I.**
  OPDES Permit Authorization Number: OKGP00349
  Section II. Facility Operator Information:
  Name: Limco-Airepair, Inc. Phone: 918-445-4300
  Address: 5304 South Lawton Ave.
  City: Tulsa, Oklahoma County: Tulsa
  Zip Code: 74017
- **III. Facility Location**:
  Name: Limco-Airepair, Inc. Phone: 918-445-4300
  Address: 5304 South Lawton Ave.
  City: Tulsa, Oklahoma County: Tulsa
  Zip Code: 74017
  Latitude: 36.09" Longitude: -96.00"

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year. This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Michael Lowther Date: 11/14/03

Signature: Michael L. Lowther

Title: Operations Manager

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: October 2, 2002-October 2, 2003

- How many routine facility inspections did you perform during the reporting period? 4
- How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date Deficiencies Corrected (Y or N) Date Corrected

_____ _____ _____ _____
_____ _____ _____ _____
_____ _____ _____ _____
_____ _____ _____ _____

What must you do to correct the deficiencies that remain uncorrected?

_____
_____

- Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
  Yes X No_____
- If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
  Yes _____ No_____ All BMPs were being implemented X
- Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
  Yes _____ No_____ No deficiencies noted an any inspection X
- Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
  Yes _____ No_____ All BMPs were effective X
- If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?
  Yes _____ No_____ All BMPs were being effective X
- At any time during the reporting period, did you discover any illicit discharges from your facility?
  Yes _____ No X
- Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
  Yes ____ No_____ Permit applied for ____ No known illicit discharges X
- Have any significant spills or leaks occurred at your facility during the reporting period?
  Yes _____ No X
- If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
  Yes _____ No X

Part B. Page 2

- If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
  Yes _____ No_____ No spills or leaks occurred__X___
- Have all known spills or leaks been cleaned up or otherwise prevented form contaminating storm water that would be discharged under the authority of this permit?
  Yes _____ No_____ No spills or leaks occurred__X___
- How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1.1 - Quarterly visual Monitoring)
  Number__4____
- Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
  Yes ____ No__X__

If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?

- ☐ New pollutant source (including exposure of previously unexposed material).
- ☐ Failure to implement or maintain an existing BMP.
- ☐ Less than expected performance from a BMP.
- ☐ No BMP was selected to deal with that problem.
- ☒ N/A (No problems identified)

If your visual monitoring indicated a potential problem, what have you done to resolve the problem?

- ☐ Eliminated exposure or pollutant source.
- ☐ Modified existing BMP.
- ☐ Added new BMP.
- ☐ Plan to address problem by end of current reporting year.
- ☐ Nothing planned.
- ☒ N/A (No problems identified)

Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____ No__X__

If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
1.			
2.			
3.			

◆HEALTH & SAFETY
◆ENVIRONMENTAL
◆TRAINING/AUDITING
◆CPR/FIRST AID/AED

6839 SOUTH PEORIA
TULSA, OKLA. 74136
OFFICE: (918) 493-2923
FAX: (918) 493-3036
WWW.PARADIGMLINK.COM

PARADIGM
CONSULTING GROUP, LLC

RECEIVED
NOV 1 5 2002
E C L S

November 12, 2002

DEQ WQD
Storm Water Unit
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Annual Comprehensive Site Compliance Evaluation Report

Please find enclosed the 2002 Annual Comprehensive Site Compliance Evaluation Report for Limco Airepair, OPDES Permit Authorization Number: OKGP00349.

Please feel free to contact me if there are any questions regarding this report at (918) 605-0351.

Sincerely,

Ed Liston

File

11/25/02 WP

See Reverse Side for Instructions

DEQ FORM 605-006
October 2, 2000

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities

NOV 1 3 2002

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided On This Form. See Instructions Included With This Form.

Section I.

OPDES Permit Authorization Number: OKGP00349

Section II. Facility Operator Information:

Name: Limco Airepair International Inc. Phone: (918) 445-4300

Address: 5304 S. Lawton

City: Tulsa County: Tulsa Zip Code 74107

III. Facility Location:

Name: Limco Airepair International Inc. Phone: (918) 445-4300

Address: 5304 S. Lawton

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 36.09 Longitude: -96.00

IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report and report which is to be filed within sixty (60) days of the end of each permit year.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Robert E Johnson Date: 11/12/02

Signature: Title VP-Gm

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: Oct 2001 - Oct 2002.

✓ How many routine facility inspections did you perform during the reporting period? 3

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
None			

✓ What must you do to correct the deficiencies that remain uncorrected?

N/A

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.7.2) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?

Yes ✓ No_____

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?

Yes _____ No_____ All BMPs were being implemented ✓

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?

Yes _____ No_____ No deficiencies noted an any inspection ✓

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?

Yes _____ No_____ All BMPs were effective ✓

✓ If you found one or more ineffective BMP, have they all been replaced with an alternative or modified BMP?

Yes _____ No_____ All BMPs were being effective ✓

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?

Yes _____ No ✓

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?

Yes _____ No_____ Permit applied for _____ No known illicit discharges ✓

✓ Have any significant spills or leaks occurred at your facility during the reporting period?

Yes _____ No ✓

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?

Yes _____ No N/A

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes _____ No_____ No spills or leaks occurred_✓_

✓ Have all known spills or leaks been cleaned up or otherwise prevented form contaminating storm water that would be discharged under the authority of this permit?
Yes _____No_____ No spills or leaks occurred_✓_

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1.1 - Quarterly visual Monitoring)
Number_2_

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes _____No_✓_

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?
1.New pollutant source (including exposure of previously unexposed material).
2.Failure to implement or maintain an existing BMP.
3.Less than expected performance from a BMP.
4.No BMP was selected to deal with that problem.
5.N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem?
1.Eliminated exposure or pollutant source.
2. Modified existing BMP.
3. Added new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes _____No_✓_

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results

Print Form | Submit by Email

RECEIVED
FEB 11 2010
ECLS

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

IMAGED FEB 19 2010 CENTRAL RECORDS

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: ~~OKR050659~~ OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date:

Signature: Title: Director of Facilities

mjs

Annual Comprehensive Compliance Site Evaluation Report - Part B

Page 1.

Reporting Period: 2009.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
	NONE		

✓ What must you do to correct the deficiencies that remain uncorrected?

NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☐ No ☒

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☒ No ☐ All BMPs were being implemented ☐

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A
1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A
1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

For the quarter ending in

Mar. ☐ Jun ☐ Sep. ☐ Dec. ☑ Year 2009

Page 1 of 1

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

RECEIVED
FEB 11 2010
STORMWATER

Business / Plant Name: LIMCO AIREPAIR, INC.

Plant Location: 5304 S. Lawton Ave. Tulsa, Oklahoma 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, Oklahoma 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	TSDF Handling Codes (required) and Comments
015251	ARR000016733	ARD981057870	0	S02 T81
018474	ARR000016733	ARD981057870	0	SO1
01589	ARR000016733	ARD981057870	0	S02 T81
018474	ARR000016733	ARD069748192	0	S01
024432	ARR000016733	ARD981057870	0	S01
015256	ARR000016733	ARD981057870	0	S01
024432	ARR000016733	TXD069452340	0	S01
024432	KS0000033689 1	ARD981057870	0	S01

Total amount **this page** in **Pounds** 0

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent _____ Date January 21, 2010

Typed Name of Authorized Agent Bill Williams

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. **OKR051059**

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O.S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

Limco Airepair Inc

5304 South Lawton Ave

Tulsa, OK 74107

Is authorized to discharge storm water from an industrial site located in **Tulsa** County at
Limco Airepair Inc
5304 South Lawton Ave
Tulsa, OK 74107

The receiving body of water is Mooser Creek.
This facility discharges into a 303(d) listed stream.
This facility discharges into an aquatic resource of concern.

The OPDES requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate control measures. These are applicable to your industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.
The Authorization shall become effective **February 3, 2014** and will expire at midnight September 4, 2016.

All terms and conditions of the OPDES Storm Water Industrial General Permit OKR05, as published on September 5, 2011, shall apply to the recipient of this authorization.

Mark Derichsweiler, P.E., Engineering Manager

Watershed Planning and Storm Water Permitting

Water Quality Division

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

349

August 25, 2006

TRACY CALLEN
LIMCO AIREPAIR INC
5304 S LAWTON AVE
TULSA, OK 74017

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number OKR051059

Dear TRACY CALLEN:

The new Notice of Intent (NOI) for the facility listed below was received on July 28, 2006 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in TULSA County.

Facility: LIMCO AIREPAIR INC
5304 S LAWTON AVE
TULSA, Oklahoma

THIS FACILITY DISCHARGES INTO A 303(d) LISTED STREAM.
This Facility Discharges to an Aquatic Resource of Concern.

All applicable fees associated with this authorization have been paid.

If you have any questions regarding this permit or the Storm Water Program, please call Matt Pace of the Environmental Complaints and Local Services Division at (405) 702-6222.

Sincerely,

Matt Pace
Storm Water Unit
Environmental Complaints and Local Services

Enclosure

c: Rick Austin, DEQ Regional Manager
Regional Office at Tulsa
Scott Van Loo, NPDES Coordinator, City of Tulsa

Oklahoma Department of Environmental Quality
Authorization to Discharge Under the OPDES Storm Water Industrial General Permit OKR05

AUTHORIZATION NO. OKR051059

In compliance with the Oklahoma Pollution Discharge Elimination System (OPDES) Act 27A O. S. §2-6-201, the Rules of the Department of Environmental Quality (DEQ), and in reliance on the certified statements and representations heretofore made in its application,

LIMCO AIREPAIR INC
5304 S LAWTON AVE
TULSA, OK 74017

Is authorized to discharge storm water from an Industrial site located in TULSA County at:

LIMCO AIREPAIR INC
5304 S LAWTON AVE
TULSA, Oklahoma

The receiving body of water is MOOSER CREEK THEN TO ARKANSAS RIVER.
THIS FACILITY DISCHARGES INTO A 303(d) LISTED STREAM.
This Facility Discharges to an Aquatic Resource of Concern.
The OPDES requires permittees to have a Storm Water Pollution Prevention Plan (SWP3) which includes a description of appropriate sediment control measures. These are applicable to your Industrial site, which is subject to inspection. Proof of this authorization must be available at the facility.

The Authorization shall become effective 8/25/2006 and will expire at midnight on May 2, 2011.

All terms and conditions of the modified OPDES Storm Water Industrial General Permit OKR05, as published on May 3, 2006, shall apply to the recipient of this authorization.

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mark Derichsweiler, P. E., Engineering Manager
Watershed Planning and Toxics Control Section,
Water Quality Division

C

See Reverse Side for Instructions

OPDES FORM 605-002B

Oklahoma Department of Environmental Quality (DEQ)
Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

CW P-17

☐ NEW APPLICATION ☑ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK GP00349

I. Facility Owner/Operator Information

Name: LIMCO-AIREPAIR, INC. Phone: (918) 445-4300

Mailing Address: 5304 SOUTH LAWTON AVE. Status of Owner/Operator: P

City: TULSA State: OKLAHOMA Zip Code: 74017 -

II. Site Information

Name of the Facility: LIMCO-AIREPAIR, INC.

Location of the Facility: 5304 SOUTH LAWTON AVE.

City: TULSA Zip Code: 74017 -

Latitude: 35.05.16 N Longitude: 96.00.03 W County: TULSA

III. Facility Activity

MS4 Operator: TULSA

Receiving Water Body: MOOSER CREEK TO ARKANSAS RIVER

Is the receiving water body on the DEQ 303(d) impaired water list? ☑ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 3728 Sector: AB Secondary : Sector:

Are you required to submit Numeric Effluent Discharge Monitoring Reports (DMRs)? NO (Yes) or (No)

ENDANGERED SPECIES ELIGIBILITY

a. ☐ My facility is not located in Federal or State sensitive waters or watersheds.

b. ☑ My facility is located in Federal or State sensitive waters or watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

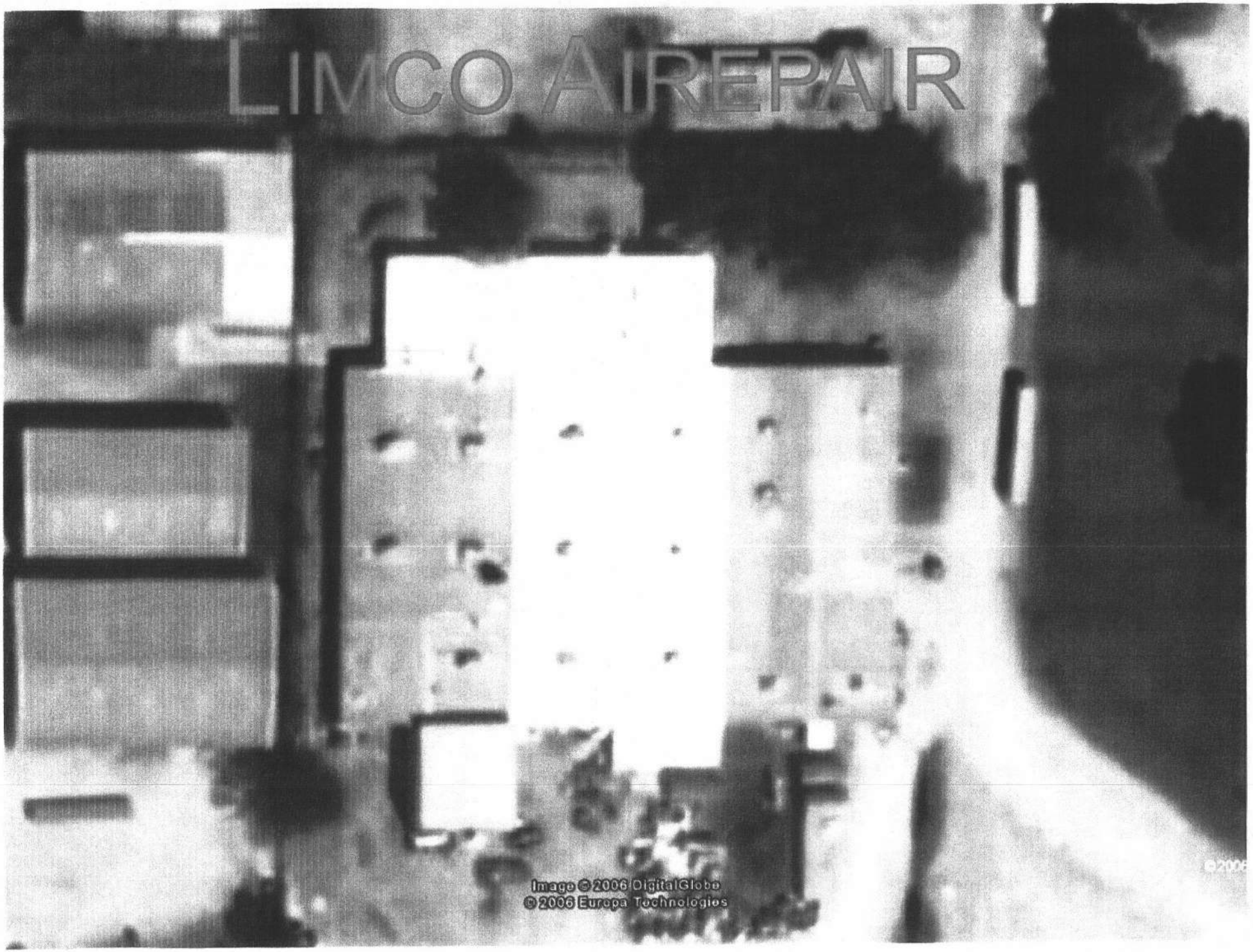
I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: Tracy C. Callen Tracy C. Callen Date: JULY 6, 2006

Signature: Tracy C. Callen Tracy C. Callen Title: EH&S Coordinator

For DEQ use Only: Assigned Authorization Number: OKR05 1059

RECEIVED JUL 7 2006


LIMCO AIREPAIR
Image © 2006 DigitalGlobe
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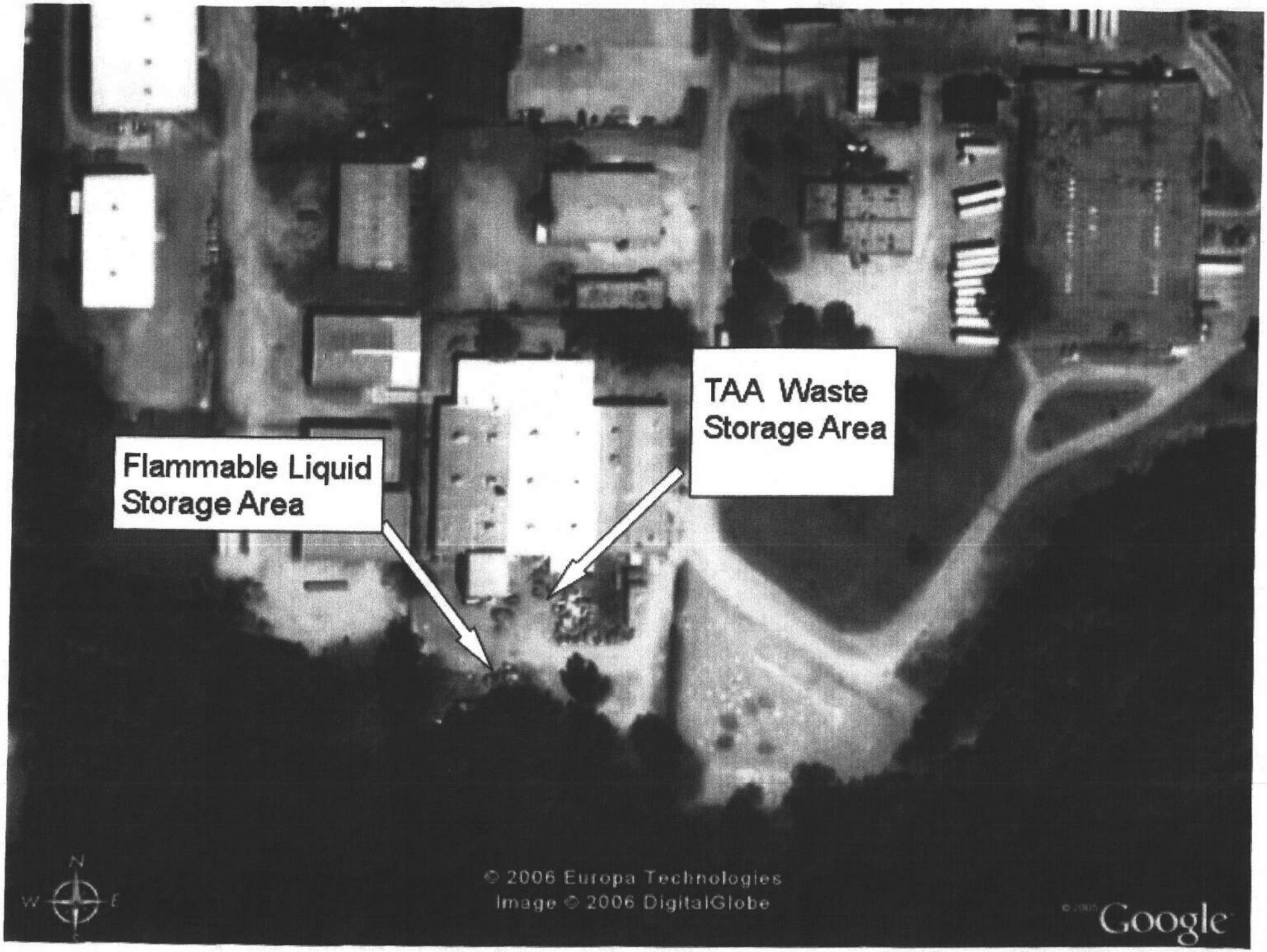
TAA Waste
Storage Area
Flammable Liquid
Storage Area
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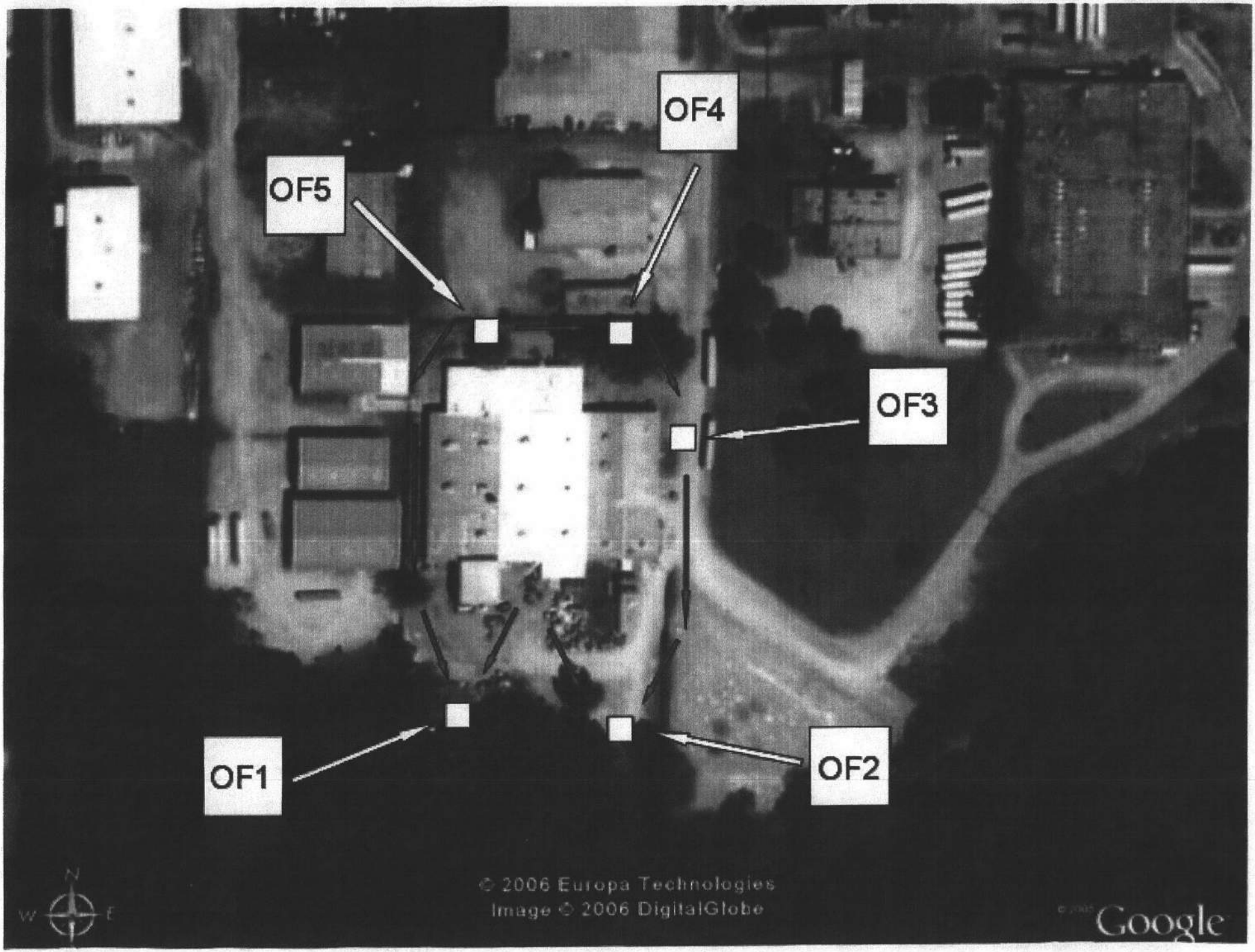
OF4
OF5
OF3
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OF2
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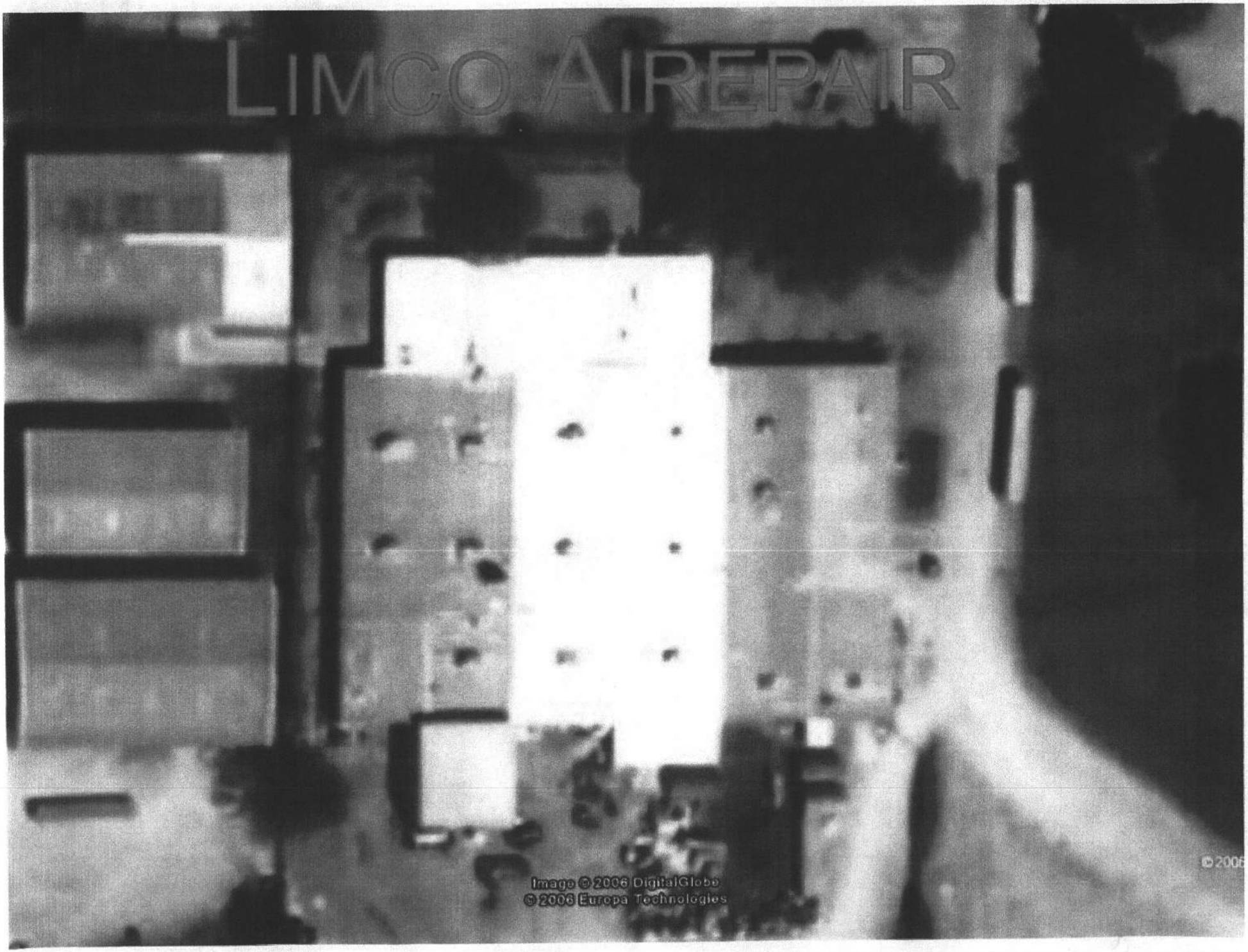
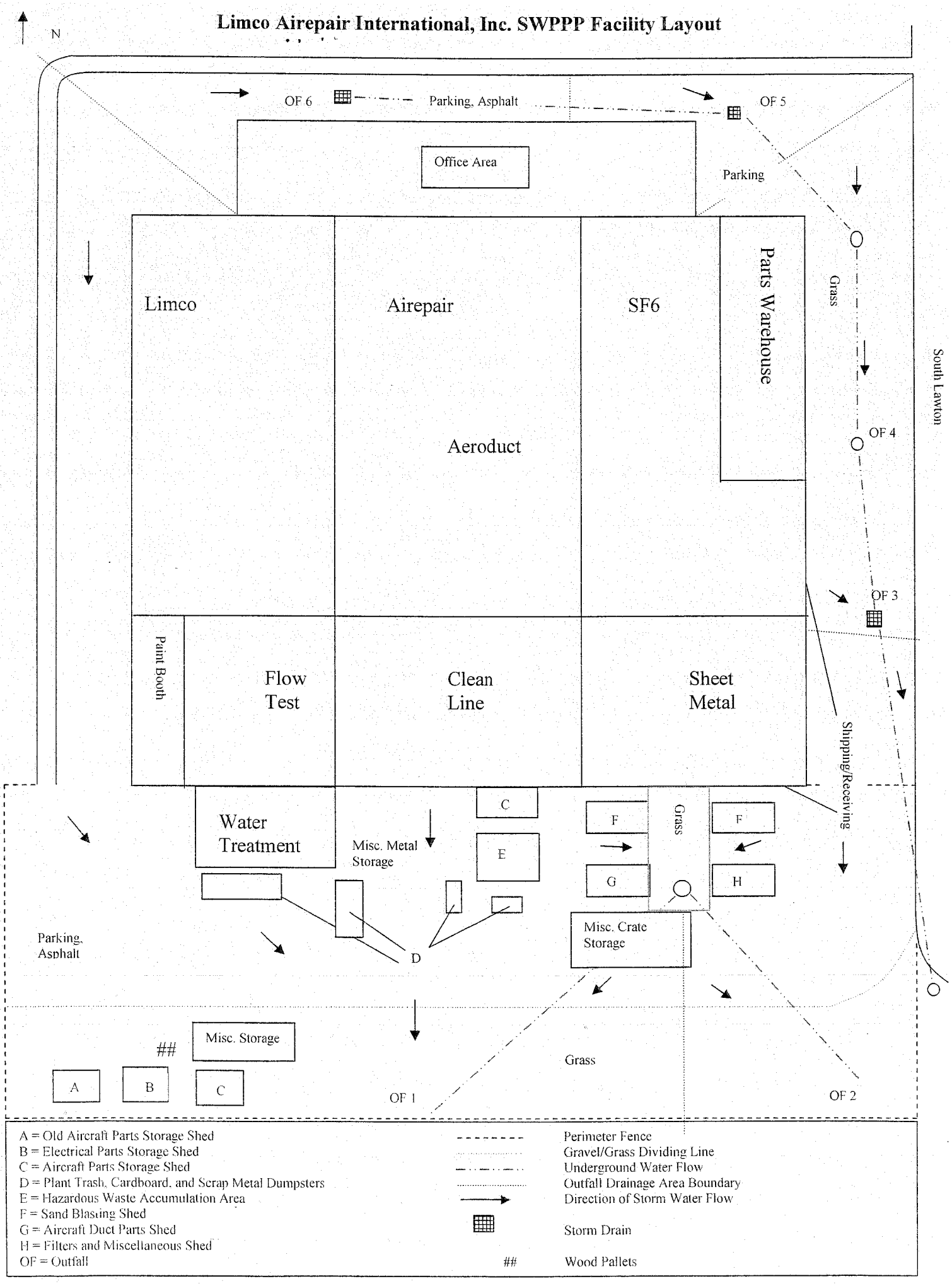
ARKANSAS RIVER
44
Mi.
S Lawton Ave W
IMCO AIREPAIR
© 2006 Navteq
© 2006 Europa Technologies
Image © 2006 DigitalGlobe
Streaming 100%
elev 661 ft


LIMCO AIREPAIR
Image © 2006 DigitalGlobe
© 2006 Europa Technologies

ARKANSAS RIVER
Mi.
S Lawton Ave W
44
IMCO AIREPAIR
© 2006 Navteq
© 2006 Europa Technologies
Image © 2006 DigitalGlobe
Streaming 100%
elev 661 ft

Limco Airepair International, Inc. SWPPP Facility Layout



A = Old Aircraft Parts Storage Shed
B = Electrical Parts Storage Shed
C = Aircraft Parts Storage Shed
D = Plant Trash, Cardboard, and Scrap Metal Dumpsters
E = Hazardous Waste Accumulation Area
F = Sand Blasting Shed
G = Aircraft Duct Parts Shed
H = Filters and Miscellaneous Shed
OF = Outfall

Perimeter Fence
Gravel/Grass Dividing Line
Underground Water Flow
Outfall Drainage Area Boundary
Direction of Storm Water Flow
Storm Drain
Wood Pallets

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

February 07, 2001

Bob Johnson
Limco Airepair, Inc.
2304 S. Lawton
Tulsa, OK 74107

Re: Authorization for Storm Water Discharge from an Industrial Facility
Authorization Number OKGP00349

Dear Bob Johnson:

The Notice of Intent (NOI) for the facility listed below was received on December 20, 2000, and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions of the Environmental Protection Agency General Storm Water Permit, as published in the Federal Register, Vol. 60, No. 189, dated September 29, 1995.

Identification of the industrial facility and location:

Facility: Limco Airepair, Inc.
5304 South Lawton
Tulsa, OK 74107

If you have any questions regarding this permit or the Storm Water Program, please call Don Mooney of the Storm Water Permitting Unit at (405) 702-8100.

Sincerely,

Don Mooney
Senior Environmental Engineer
Water Quality Division

Enclosure

DM/MD/PL

cc: Rick Austin, DEQ Regional Manager
Regional Office of Tulsa
Cecil Cotner, NPDES Coordinator, City of Tulsa

printed on recycled paper with soy ink

BE ● 9-07 ● FAX RECEIVED

DEC 20 2000

WATER QUALITY DIVISION

See Reverse Side for Instructions

OPDES FORM 605-002B October 2, 2000

DEQ OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality (DEQ)
Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit GP-00-01

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

IF YOUR FACILITY OR SITE IS ON INDIAN COUNTRY LAND, FILE YOUR NOI WITH THE EPA.

I. Facility Owner/Operator Information

Name: LIMCO AIREPAIR, INC. Phone: (918) 445-4300

Mail Address: 5304 S. LAWTON Status of Owner/Operator: P

City: TULSA State: OK Zip Code: 74107 -

II. Site Information

Name of the Facility LIMCO AIREPAIR, INC. Authorization Number: OKSM 008036

Location of Facility 5304 S. LAWTON

City: TULSA Zip Code: 74107 -

Latitude: 36° 5' 16" Longitude: 96° 0' 3" County: TULSA

Is this facility on Indian Country land? ☐ Yes ☒ No (If Yes, file your NOI with the EPA using the EPA NOI form)

III. Facility Activity

MS4 Operator: CITY OF TULSA

Receiving Water Body: ARKANSAS RIVER VIA MOOSEK CREEK

SIC or Designated Activity Code and Sector Primary : 3728 Sector: AB Secondary : _____ Sector: _____

Are you required to submit Numeric Effluent Discharge Monitoring Reports (DMRs)? NO (Yes) or (NO)

OKGP00349 ENDANGERED SPECIES ELIGIBILITY

a. ☐ My facility is not located in or draining to an Aquatic Resource of Concern.
b. ☒ My facility is located in or drains to an Aquatic Resource of Concern and I agree to implement the control measures specified in Step 2 of Exhibit 1.
c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: BOB JOHNSON Date: 12/15/00

Signature: _____ Title: VICE PRESIDENT

December 14, 2000

RECEIVED
DEC 20 2000
WATER QUALITY DIVISION

SHERWILL
ENVIRONMENTAL
HEALTH & SAFETY
CONSULTANTS

DEQ
Storm Water Program
Water Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Re: Notice of Intent

Please find enclosed the Notice of Intent for Limco Airepair International, Inc. located in Tulsa, Oklahoma. Limco Airepair manufactures, remanufactures, and repairs aircraft heat exchangers. The facility's mailing address is 5304 S. Lawton, Tulsa, OK 74107. Limco Airepair's SIC code is 3728 placing the facility in Sector AB. A pollution prevention plan has been prepared for the facility and is on-site. A copy of the NOI and permit authorization will be sent to the City of Tulsa.

Please note that a NOI has already been submitted for this company; however, the NOI was dated October 1 and was not the current form. This submission is intended to replace the original submission.

Please feel free to contact me at (918) 355-1342 if there are any questions regarding this Notice of Intent.

Sincerely,

Vikki Brawner

Vikki Brawner
SherWill EH&S Consultants

cc: Bob Sherwin

SherWill, Inc.
10388 E. 21st Street
Tulsa, OK 74129

Answ. Serv. (918) 660-5103
Office/Fax (918) 622-2782

OKR051059

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

March 28, 2012

Bill Williams
LIMCO-AIREPAIR, INC
5304 South Lawton Ave
Tulsa, OK 74017

RE: Storm Water Pollution Prevention Plan
LIMCO-AIREPAIR, INC

Dear Bill Williams:

The storm water pollution prevention plan (SWP3) submitted for the above-referenced industrial facility is incomplete. Based on the review of our staff, the SWP3 does not meet one or more of the minimum requirements listed in Part 4 of the OKR05 General Permit. Please submit to our office a revised SWP3 that addresses the following deficiency (ies) within seven (7) working days, **April 4, 2012**.

1. Provide a general location map that identifies the nearest receiving waters within one mile of the facility.
2. Provide a map identifying the following:
   - the size of the property in acres
   - the location of significant structures and impervious surfaces;
   - directions of storm water flow;
   - locations of all existing structural BMP's;
   - locations of surface waters on or adjacent to the facility, indicating if any of the waters are impaired and, if so, whether the waters have TMDL's established for them;
   - locations of all storm water conveyances including ditches, pipes and swales;
   - locations of potential pollutant sources and where significant materials are exposed to storm water;
   - locations of where significant spills or leaks have occurred;
   - locations of all storm water monitoring points;
   - municipal separate storm sewer systems, where your storm water discharges to them;
   - locations of storm water inlets and outfalls and an approximate outline of the area draining to each outfall;
   - location and description of all non-storm water discharges;
   - locations of where the following are located and exposed: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail lines used by carriers of materials/products; the location of any transfer area for substance in bulk; and machinery;
   - location and source of run-on to your site from adjacent property that contains significant quantities of pollutants.
3. Your SWP3 must include a *signed* certification that all discharges have been tested or evaluated for the presence of non-storm water. Please see Part 4.2.12 of the OKR0S General Permit.
4. Documentation of permit eligibility related to TMDL. See Part 4.2.14 of the OKR05 General Permit. Please note that the facility discharges to an impaired water.
5. Provide an emergency spill response plan that identifies the following: personnel responsible for implementing the plan in the event of a spill (include names, titles, and contact information), the

number for the local authorities, the DEQ 24 hour complaints hotline number, the number for the National Spill Response Center, the name and number of an environmental cleanup company and the immediate procedures for cleanup/containment of both small and large spills.

6. Your SWP3 must be consistent (and updated as necessary to remain consistent) with applicable, municipal, or local storm water, waste disposal, sanitary sewer or septic system regulations to the extent these apply to your facility.
7. A schedule must be included which describes the inspection practices that will be used to ensure that control measures are working effectively. *Monthly* inspection shall be conducted for areas of the facility with significant activities.

Once the complete and revised SWP3 is received by our office, the DEQ reserves the right to further review the completeness of your application and request additional information if necessary. DEQ will not issue an authorization without the requested information. Please note, discharges that occur without coverage under the General Permit for Industrial Activities (OKR05) are in violation.

Information not received by the indicated deadlines or non-responsiveness to our request may result in your application being referred for enforcement.

If you have any questions, please contact me at (405) 702-6167.

Sincerely,

Amber McIntyre

Amber McIntyre
Environmental Programs Specialist

OKR051059

Mcintyre, Amber M.

From: Bill Williams <billw@limcoairepair.com>
Sent: Tuesday, April 03, 2012 12:27 PM
To: Mcintyre, Amber M.
Subject: Storm water pollution plan (SWP3)

Amber,

Please be advised that due to time away from the office, I am requesting a 15 working day extension in order to meet the requirement listed in your letter. It will be due no later than 4-25-2012. If this a problem, please call.

Thank You,

Bill Williams
Director of:
Facilities, Maintenance,
Environmental, Health & Safety
Limco Aircraft

When it comes to Heat Transfer, nothing is too hot for us.

5304 S. Lawton Ave
Tulsa, OK. 74107
Main Office: 918-445-4300
Direct Line: 918-445-4311
Fax Number: 918-446-8704
Cell Number: 918-607-3665
billw@limcoairepair.com
www.limcoairepair.com

February 11, 2014

BILL WILLIAMS
LIMCO AIREPAIR INC
5304 SOUTH LAWTON AVE
TULSA OK 74107

Re: Authorization for Storm Water Discharge from Industrial Activity(ies)
Authorization Number: OKR051059

Dear BILL WILLIAMS

The new Notice of Intent (NOI) for the facility listed below was received on December 8, 2011 and processed by the Oklahoma Department of Environmental Quality. Enclosed is an authorization allowing you to discharge storm water associated with industrial activities under the terms and conditions in accordance with Oklahoma's OPDES Storm Water General Permit OKR05 for the following site located in Tulsa County.

Facility:
LIMCO AIREPAIR INC
5304 SOUTH LAWTON AVE
TULSA, OK 74107

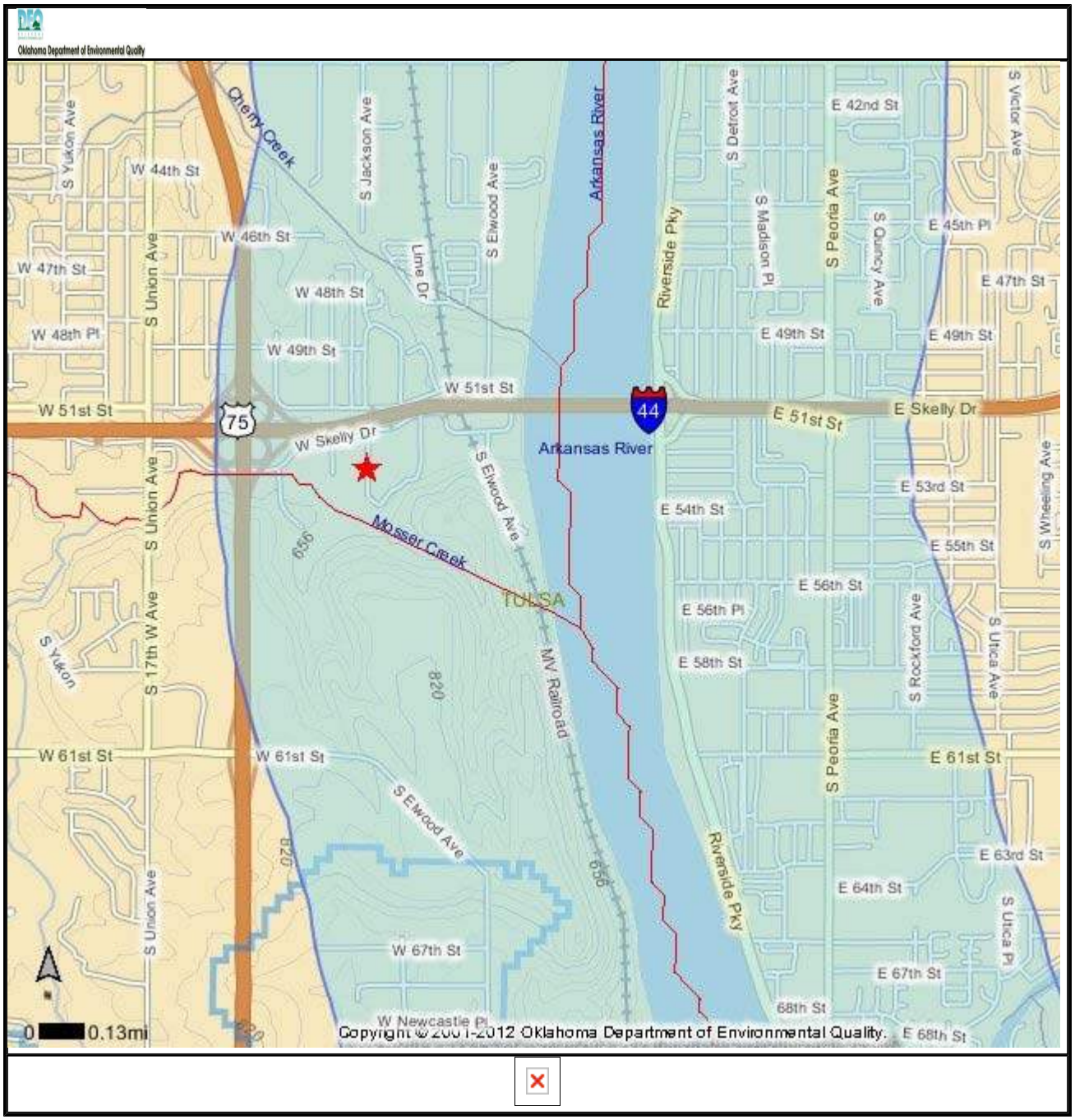
All applicable fees associated with this authorization have been paid.

Sites that remain active as of July 1, 2014 will be invoiced for the full permit year (July 1, 2014 - June 30, 2015).

If you have any questions regarding this permit or the Storm Water Program, please call Matthew Johnson of the Environmental Complaints and Local Services Division at (405) 702-6182.

Sincerely,

Matthew Johnson
Environmental Program Specialist
Environmental Complaints and Local Services


Oklahoma Department of Environmental Quality
Cherry Creek
S Jackson Ave
S Yukon Ave
W 44th St
W 46th St
W 47th St
W 48th St
W 48th Pl
W 49th St
S Union Ave
Lime Dr
S Elwood Ave
Arkansas River
Riverside Pky
S Detroit Ave
S Madison Pl
S Peoria Ave
S Quincy Ave
E 42nd St
S Victor Ave
E 45th Pl
E 47th St
E 49th St
E 49th St
W 51st St
W 51st St
75
44
E 51st St
E Skelly Dr
W Skelly Dr
Arkansas River
E 53rd St
E 54th St
E 55th St
S Wheeling Ave
Mosser Creek
650
TULSA
E 56th St
E 56th Pl
E 58th St
S Rockford Ave
S Utica Ave
S Yukon
S 17th W Ave
S Union Ave
820
MV Railroad
W 61st St
W 61st St
E 61st St
S Peoria Ave
S Elwood Ave
656
Riverside Pky
E 63rd St
E 64th St
S Utica Pl
W 67th St
E 67th St
68th St
W Newcastle Pl
E 68th St
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OPDES FORM 605-002B

Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☒ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK RO50659

I. Facility Owner/Operator Information

Name: LIMCO-AIREPAIR, INC. Phone: (918) 445-4300

Mailing Address: 5304 SOUTH LAWTON AVE. Status of Owner/Operator: P

City: TULSA State: OK Zip Code: 74017 - Email Address: BILLW@LIMCOAIREPAIR.COM

II. Site Information

Name of the Facility: LIMCO-AIREPAIR, INC.

Location of Facility: 5304 SOUTH LAWTON AVE.

City: TULSA Zip Code: 74017 -

Latitude: 36 5 14.494 Longitude: -96 0 0.95 County: TULSA

III. Facility Activity

MS4 Operator: TULSA

Receiving Water Body: MOOSER CREEK (ARKANSAS RIVER)

Is the receiving water body on the DEQ 303(d) impaired water list? ☒ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 3728 Sector: AB Secondary : Sector:

Is your SWP3 developed? ☒ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? NO (Yes) or (No)

R 11-01850

ENDANGERED SPECIES ELIGIBILITY

a. ☐ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☒ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: BILL WILLIAMS Date: 12-2-11

Signature: Bill Williams Title: DIRECTOR OF FACILITIES & EHS

For DEQ use Only: Assigned Authorization Number: OKR05 10559

Supp ID 12412 Permit ID 12632

OKR051059

NON-STORM WATER DISCHARGE ASSESSMENT	**Completed by**: Ed Liston **Title**: EH&S Professional **Date**: November 11, 2011

Directions: List all outfalls tested, the date of the test, the type of evaluation, possible pollutants, and person conducting evaluation.

Outfall Observed	Date	Type of Evaluation	Possible Pollutants	Evaluator
Outfall 1 East	11/11/11	Visual Observation	Oil and grease, antifreeze, hydraulic fluid, particulate matter, metals, metal oxides, organics, and hazardous waste	Ed Liston
Outfall 2 West	11/11/11	Visual Observation	Oil and grease, antifreeze, hydraulic fluid, particulate matter, metals, metal oxides, organics, and hazardous waste	Ed Liston

Non-storm water discharges were not observed during the evaluation.

Authorized facility non-storm water discharges consist of:

- Uncontaminated air conditioning and compressor condensate and
- Potable water from fire suppression system flushing and hydrants.

LIMCO AIREPAIR INTERNATIONAL DATE:

CLASS: STORM WATER POLLUTION PREVENTION
INSTRUCTOR:

NAME (PLEASE PRINT) SIGNATURE

1. _____
2. _____
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16. _____
17. _____
18. _____
19. _____
20. _____
21. _____
22. _____

Outfalls and Associated Pollutants

Outfalls 1 and 2: Possible Pollutants include:

- oil and grease,
- antifreeze,
- hydraulic fluid,
- particulate matter,
- metals,
- metal oxides,
- organics, and
- hazardous waste.

Limco Airepair International

Quarterly Visual Sampling Documentation

Date of Analysis:
Time of Analysis:
Evaluation Performed By:
Outfall:

Parameters Evaluated	**Result of Evaluation**
Color	_____
Odor	_____
Clarity	_____
Oil Sheen	_____
Particulate Matter	_____
Foam	_____
Other:	_____

If any of the above test positive in the sample, immediately evaluate facility site for source of pollution. If possible, rectify the problem immediately. Document all information below.

_____
_____
_____
_____
_____
_____
_____

Limco Airepair International

Periodic Facility Inspection Documentation

Date of Inspection:
Time of Inspection:
Evaluation Performed By:

Inspection of:	**Result of Inspection**
Hazardous Waste Accumulation Area	
Scrap Metal Storage	
All Material Storage Areas	
Wood Pallet/Crate Storage	
Chemical and Paint Storage	
Loading Docks	
Storm Water Drains	
Wastewater Treatment Area	
Facility Grounds	
Plant Vehicles	
Other:	

If any of the above results indicate potential problems for storm water contamination, immediately evaluate facility site for resulting pollution. If possible, rectify the problem immediately. Document all information below.

Significant Spills and Leaks					Completed by: Ed Liston Title: EH&S Professional Date: 11/11/2011	
Directions: Record below all significant spills and significant leaks of toxic or hazardous pollutants that have occurred at the facility in the three years prior to the effective date of the permit.						
Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.						
1st Year Prior						
Date	**Spill**	**Leak**	**Location**	**Description**	**Response Procedure**	**Preventive Measures Taken**
None						
2rdYear Prior						
Date	**Spill**	**Leak**	**Location**	**Description**	**Response Procedure**	**Preventive Measures Taken**
None						
3rd Year Prior						
Date	**Spill**	**Leak**	**Location**	**Description**	**Response Procedure**	**Preventive Measures Taken**
None						

Description of Exposed Significant Material					Completed by: Ed Liston Title: EH&S Professional Date: 11/11/2011
Instructions: Based on your material inventory, describe the significant materials that were exposed to storm water during the past three years and/or are currently exposed.					
Description of Exposed Significant Material	**Period of Exposure**	**Quantity Exposed (units)**	**Location (as indicated on the site map)**	**Method of Storage or Disposal (e.g., pile, drum, tank)**	**Description of Material Management Practice (e.g., pile covered, drum sealed)**
Miscellaneous Metal Storage	24/7	Varies	South Storage Area	On the ground	The material is stored over gravel.
Scrap Metal	24/7	2 containers	South Storage Area	The scrap metal is stored in a container.	The container is located over gravel.
Wood Pallets/Crates	24/7	Varies	South Storage Area	Piles on gravel	The pallets/crates are stored over gravel.
Hazardous Waste Accumulation Area	24/7	Varies	South Storage Area	Material is stored in drums	The drums are stored in a covered concrete secondary containment area.
Plant Vehicle Traffic	24/7	3 propane forklifts	North Storage Area		The forklifts are stored inside the facility at night.
Plant Trash and Cardboard Dumpsters	24/7	1 container	East Side Storage Area	The plant trash and cardboard are stored in compactor.	The compactor is equipped with a lid.

Limco Airepair International

Contained Water Sampling Documentation

Date of Analysis:
Time of Analysis:
Evaluation Performed By:
Time of Release:

Parameters Evaluated	**Result of Evaluation in Containment**
Color	_____
Odor	_____
Clarity	_____
Oil Sheen	_____
Particulate Matter	_____
Foam	_____
Other:	_____

If any of the above tests positive in the sample, do not dispose of water to storm sewer or facility property. No contaminated water is to be released from the secondary containment area. Document all information below.

_____
_____
_____
_____
_____
_____
_____

OKR051059

5304 S. Lawton
Tulsa, OK 74107

Limco Airepair International, Inc.

Storm Water Pollution Prevention Plan

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Storm Water Pollution Prevention Plan Goal

1.0 Purpose

The purpose of Limco Airepair International's Storm Water Pollution Prevention Plan (PPP) is to control or eliminate the discharge of storm water pollutants from facility property. Limco Airepair's primary SIC of 3728 requires this business to obtain a storm water permit and prepare a pollution prevention plan. Limco Airepair desires to ensure that the facility site is not contributing to storm water pollution and has prepared this pollution prevention plan in accordance with the rules and regulations of the Oklahoma Multi-Sector General Permit and Sector AB. The facility will conduct periodic inspections of facility property and will conduct quarterly visual evaluations as required by this plan.

Pollution Prevention Team and Responsibilities

2.0 Pollution Prevention Plan Team Members

Pollution prevention team meetings will be held periodically to ensure that all portions of the pollution prevention plan are being implemented including visual monitoring and periodic inspections.

The pollution prevention team is responsible for the following:

- **Implementing** all general permit and pollution prevention plan requirements.
- **Defining** and agreeing upon an appropriate set of goals for the facility's storm water management program.
- **Being aware** of any changes that are made in plant operations to determine whether any changes must be made to the Storm Water Pollution Prevention Plan.
- **Maintaining** a clear line of communication with plant management to ensure a cooperative partnership.

The Pollution Prevention Plan Team Roster is on the following page.

POLLUTION PREVENTION TEAM MEMBER ROSTER	
Leader: Dan Kraft	**Title:** Executive Vice President-Sales
	Phone: (918) 445-4300
Responsibilities: Implement the pollution prevention plan and ensure that employee training is conducted. Conduct quarterly visual sampling. Ensure periodic inspections are conducted, and follow-up on and make any needed repairs on items noticed during periodic or other inspections. Maintain all records pertaining to the storm water permit or plan.	
Member: Tracy Callan	**Title:** EHS Coordinator
	Phone: (918) 445-4302
Responsibilities: Follow the pollution prevention plan, and fill in for the team leader in his absence. Conduct inspections of chemical inventories. Be a member of the spill response team.	
Member: Roy Cameron	**Title:** Clean Line Operator
	Phone: (918) 445-4300
Responsibilities: Follow the pollution prevention plan, and conduct periodic inspections. Be a member of the spill response team.	
Spill Response Coordinator: Tracy Callan	**Title:** EHS Coordinator
	Phone: (918) 445-4302
Responsibilities: Ensure that procedures are developed for isolating, containing, and cleaning up any spills or releases of Section 313 Water Priority Chemicals or any other pollutant. Also, establish and implement reporting procedures for when spills or releases occur.	

Limco Airepair International Site Assessment

3.0 Facility Information

Limco Airepair International, Inc. owns approximately 5 acres of land on which one permanent building sits with a total of 170,000 ft^2. The facility began operations at this site in 1995. Prior to this date, the facility was owned and operated by an oil field tooling shop. A YMCA is located to the south of the facility, a wood pallet manufacturer to the west, and Pepsi is located to the east and north of the facility.

A facility layout has been prepared that identifies the locations where storm water is discharged from the facility (outfalls), possible pollutant sources, and drainage patterns on facility property. This map is located in Appendix 1. Structural storm water control measures, locations of past significant spills or releases, nearby water bodies, storm water runoff with significant potential for causing soil erosion, and locations of exposed significant materials or industrial activities, if present, are shown on this layout.

3.1 Municipal Separate Storm Sewer Systems & Receiving Waters

Limco Airepair's storm water is discharged to storm drains located throughout the facility and a creek. Therefore, this facility's storm water is discharged into the City of Tulsa's Municipal Separate Storm Sewer System. The receiving water for this portion of the system is Mooser Creek and ultimately the Arkansas River. The City of Tulsa requires that documentation proving that a Notice of Intent was filed with the Oklahoma Department of Environmental Quality be sent to them by certified mail.

3.2 Possible Pollutants and Potential Impact

A facility audit was conducted on July 19, 2006 for the purpose of gathering information to design a facility layout, identifying possible sources of storm water pollution, identifying structural and nonstructural controls existing at the facility, and identifying Best Management Practices in place at the facility. As a result of the audit, the following list of exposed significant material was developed. The potential sources of pollution listed below have been assigned

to different categories of risk to storm water including low, moderate, and high.

- Sand blasting sheds - moderate,
- Miscellaneous metal storage - moderate,
- Scrap metal container – moderate,
- Wood pallets and/or crates - low,
- Hazardous waste 90-day storage area – moderate,
- Plant vehicle traffic - moderate, and
- Plant trash dumpsters - moderate.
- Flammable liquid storage area – moderate.

The materials stored outside during the past three years consist of the same materials currently stored outside. A material storage list is located in Appendix 6.

3.3 Pollutants of Concern as Identified with Pollutant Sources

The pollutants of concern associated with the items identified in the previous section are as follows:

- Sand blasting sheds – Storm water contamination with particulate matter, metals, and metal oxides if of concern.
- Miscellaneous metal storage – There are two possible sources of pollution regarding metal storage. First, if the pH of the rain is acidic, the possibility of polluting storm water with metals and metal oxides exists. Second, any oil and grease or material left on or in the metal like cutting fluids from use or manufacture is of concern for storm water pollution.
- Scrap metal container – In addition to possible contamination of storm water with metals, metal oxides, oil and grease, and cutting fluids, particulate matter contamination is likely.
- Wood pallets and/or crates – There is a possibility of contamination of storm water with any materials that have been spilled on pallets during use and before outside storage.
- Hazardous waste storage area – The possibility for contamination of storm water with organic solvents and paints is a possibility in this

area. A newly installed roof over the area will reduce the likelihood and severity.

- Flammable liquid storage area – The possibility for contamination of storm water with organic solvents and paints is a possibility in this area. A newly installed roof over the area will reduce the likelihood and severity.

- Plant vehicle traffic – The possibility exists of contaminating storm water with oil and grease, antifreeze, hydraulic fluid, etc. from plant vehicles.

- Plant trash dumpsters – Storm water can be contaminated with particulate matter and various other materials from items disposed of in the plant dumpster.

3.4 Description of Facility Operations

Limco Airepair conducts manufacturing, remanufacturing, and repair of heat exchangers for aircraft. The heat exchangers are made primarily from aluminum, stainless steel, and copper. The manufacturing process consists of grinding, welding, polishing, machining, dip cleaning, painting, etc. The equipment is put into wooden crates and stored inside the facility prior to shipping.

3.5 Facility Storage and Shipping/Receiving Areas

There is one outside storage area at Limco Airepair's facility. It is designated as the South Storage Area. Most raw material storage takes place inside the facility building or inside sheds located outside. Manufacturing operations take place inside the facility building and inside the outdoor sheds. Plant vehicles travel through all areas of the facility. The following materials are stored in the South Storage Area.

South Storage Area: The items located in this storage area consist of plant trash dumpsters, a scrap metal container, the 90-day hazardous waste accumulation point, flammable liquid storage, wood pallets, miscellaneous metal, various wood crates, and sheds for storage and sand blasting operations.

Most materials are loaded and unloaded through the loading docks greatly minimizing contact of storm water with materials. However, wood crates and metals must occasionally be unloaded outside and brought into the facility via forklift. The shipping and receiving areas are located on the east and south sides of the facility.

3.6 Management of Materials

Limco Airepair is a large quantity generator of hazardous waste. This waste is generated from the painting process, clean line operations, and solvent cleaning operations and is removed from the facility at least once every 90 days by Perma-Fix Treatment Services. The waste is stored in the 90-day accumulation area until removal. The storage area is equipped with concrete secondary containment capable of containing 110% of the volume of one drum. Spill equipment will be kept handy.

Scrap metal is generated from this facility. One scrap metal accumulation container is located in the South Storage Area. The types of scrap metal generated include stainless steel, aluminum, and copper. The facility also has two plant trash dumpsters and one cardboard accumulation container. Waste Management removes the trash as needed, and Borg removes the scrap metal from the facility approximately once every forty-five days.

This facility has a wastewater treatment process located inside the facility building. This operation removes metals and adjusts the pH of water from the clean line operations. The sludge from the system is disposed of in accordance with all waste rules and regulations, and the facility has an Industrial Wastewater Discharge permit from the City of Tulsa.

3.7 Structural and Nonstructural Storm Water Control Methods

Limco Airepair has several structural control measures in place in addition to nonstructural methods. Structural measures at the facility consist of an enclosed room for the air compressors, covered loading/unloading docks, and conveyances for storm water. Several sheds have been put in place for outside storage. Most of the facility (80%) consists of asphalt and gravel. The remaining 20% consists of grass. The roof is equipped with downspouts, and there are several storm drains on the facility property. Other structural methods consist of filters on exhaust air from the paint booth and blasting booth.

Another structural method is the containment for the hazardous waste accumulation area. Any storm water that is trapped in this area is evaluated for any signs of potential pollution. If there is any evidence that the water is contaminated, it will be drummed up and sent off-site for proper disposal. A form documenting these inspections is located in Appendix 3.

Nonstructural methods consist of a general policy of inside storage and parking of plant vehicles inside the facility building when not in use. Plant vehicles are maintained inside the facility building or at an off-site location.

3.8 Spills or Leaks

Limco Airepair has not had any spills of any significance in the past three years as documented on the form in Appendix 2. The most likely place for a spill at the facility is inside the facility at the clean line operations, the solvent degreasing operations, and wastewater treatment operations, and outside of the facility at the waste accumulation point. It is highly unlikely that any spilled material would reach facility outfalls. The drainage point for these areas would be Outfalls 1 and 2. More information regarding spills can be found in Section 4 of this plan.

3.9 Sampling Data

Limco Airepair has documented previous inspections of storm water at facility outfalls. These records can be found on file at the facility. The facility will institute a storm water visual monitoring program as a requirement of this plan.

3.10 Non-Storm Water Discharge Evaluation

Since non-storm water discharges are prohibited by the storm water permit except those authorized in Part 1.2.4, a visual evaluation was conducted of the facility to ensure that these types of discharges were not occurring. The evaluation was conducted on July 19, 2006 and consisted of a walking inspection of all facility property and outfalls. At the time of the inspection, no non-storm water discharges were observed, but possible discharges are listed below. The facility does use process water, but the water is used inside the facility building and is discharged to the sanitary sewer.

Possible non-storm water discharges from the facility include only uncontaminated air conditioning and compressor condensate and potable line flushing from the fire suppression system and fire hydrants.

Best Management Practices

4.0 Purpose of Best Management Practices

Oklahoma's Multi-Sector General Permit requires the incorporation of the following Best Management Practices (BMPs) into the pollution prevention plan: (A) Good Housekeeping, (B) Minimizing Exposure, (C) Preventive Maintenance, (D) Spill Prevention and Response Procedures, (E) Routine Facility Inspections, (F) Employee Training, (G) Sediment and Erosion Control, and (H) Management of Runoff. These BMPs are discussed in the following sections.

4.1 Good Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly work environment. Often the most effective first step towards preventing pollution in storm water from industrial sites involves merely using good common sense to improve the facility's basic housekeeping methods. The following are some simple procedures that have been incorporated into an effective good housekeeping program:

- **Improve** operation and maintenance of industrial machinery and processes.
- **Implement** careful material storage practices.
- **Maintain** up-to-date material inventory.
    - Identify all chemical substances present in the workplace.
    - Label all containers showing name and type of substance, stock number, etc.
- **Schedule** routine cleanup operations and regular garbage and waste material pickups.
- **Maintain** well-organized work areas.
- **Train** employees about good housekeeping practices.

- **Conduct** routine inspections for leaks and conditions of drums, tanks, and container.

4.2 Minimizing Exposure

Where practicable, Limco Airepair has made it policy to protect industrial materials and activities by a storm resistant shelter with the goal of preventing exposure to rain, snow, snowmelt, or runoff. Some examples of this policy include the inside storage of materials, material storage sheds, and plant trash dumpsters equipped with lids.

4.3 Preventive Maintenance

Limco Airepair has developed a preventive maintenance program that involves inspections and maintenance of storm water management devices and routine inspections of facility operations to detect faulty equipment. Equipment (such as air compressors) will be checked regularly for signs of deterioration. All inspections must be documented on the forms supplied in Appendix 3.

- All chemical storage containers including drums, tanks, and totes are labeled.

- Storm drains located throughout the grounds are inspected regularly to ensure that there are no obstructions blocking the flow of storm water.

- All chemical storage containers, full and empty, are inspected on a regular basis.

- All plant vehicles are inspected on a regular basis for fluid leaks. If problems are detected, the vehicle will be taken out of service until repaired. It is important to note that the repairs are conducted inside the facility building or over tarps.

- Filters for the spray booth and sand blasting operations are maintained in good condition.

- The hazardous waste storage area secondary containment is inspected on a regular basis.

- Spill equipment is inspected to ensure its readiness.

EPCRA, SECTION 313, FACILITY PREVENTIVE MAINTENANCE INSPECTION REQUIREMENTS—All areas of the facility must be inspected for the following on a daily basis:

- Leaks or conditions that would lead to discharges of Seetion 313 water priority chemicals,

- Conditions that could lead to direct eontact of storm water with raw materials, intermediate materials, waste materials or products,

- Piping, pumps, storage tanks and bins, pressure vessels, process and material handling equipment, and material bulk storage areas for leaks, wind blowing, corrosion, support or foundation failure, or other deterioration or no containment.

Any items found during inspection must be corrected immediately. If a leak or release is found, it must be immediately reported to the Spill Response Coordinator.

Limco Airepair has water priority chemicals in use at the facility. However, with proper use of the chemicals, containment devices, and inspection procedures, contamination of storm water with these chemicals is highly unlikely. Spill equipment is kept at liquid chemical use areas.

4.4 Spill Prevention and Response Procedures

Areas where spills are likely to occur and their drainage points are clearly identified in Section 3.8 of this plan. Employees are aware of response procedures, including material handling and storage requirements. Access to spill equipment at the facility will be provided where appropriate.

4.5 Spill Prevention Plan Considerations

- Install leak detection devices as necessary.

- Adopt good housekeeping practices.

- Perform regular visual inspections to identify areas for potential leaks or spills.

- Recycle, reduce, and reuse process materials to minimize waste onsite.

4.6 Spill Response Plan

Limco Airepair's Spill Response Plan consists of the following four items:

- Identification of a spill response team to implement the spill response plan.
- Identification of safety measures.
- Development of procedures for notifying appropriate authorities (police, fire, hospital, Publicly Owned Treatment Works [POTW], etc.) in the event of a spill.
- Identification of spill containment, diversion, isolation, and cleanup practices.

4.6.1 Spill Response Team

The spill response team is composed of the members of the storm water pollution prevention team. The Spill Response Coordinator is the Pollution Prevention Plan Team Leader. Additional members may be added to the team as required. This information may be found in Section 2.0 of this plan.

4.6.2 Spill Response Safety Measures

Limco Airepair's safety measures are comprised of the following:

- Notification – Upon discovery of spill or release, the Spill Response Coordinator or a member of the Spill Response Team should be notified immediately.
- Awareness and Safety - Employees should not attempt a response until the substance, its dangers, and proper personal protective equipment have been identified. The Spill Response Team will identify the hazards associated with the substance and proper personal protective equipment required by consulting the product MSDS and/or container labels.

4.6.3 Spill Notification

If Limco Airepair experiences a reportable spill, the Spill Response Coordinator or a member of the Spill Response Team will notify the following agencies:

Environmental Release Hotline - (800) 832-8224
Tulsa County Sheriff's Office - 911 or (918) 596-8684
National Response Center (NRC) - (800) 424-8802

Department of Environmental Quality (DEQ) - (800) 522-0206
EPA Region 6, 24-Hour Spill Hotline -(214) 665-2222
Fire Department\Local Emergency Planning Committee – 911 /
(918) 596-7361

4.6.7 Spill Containment, Diversion, Isolation, and Cleanup Practices

Material Safety Data Sheets identify the appropriate procedures and materials to use for spill abatement and cleanup of the named product. Appropriate cleanup materials and equipment will be kept in areas where materials are handled or stored, and which have a high potential for spills.
If a spill or release occurs, the following steps will be followed in order:

- The Spill Response Coordinator or other member of the spill response team will be notified of the spill or release.

- The Spill Prevention Coordinator or appropriate individual will determine if the spill\release is "reportable," and immediately notify the appropriate Regulatory agencies. **Agency telephone numbers are in Section 4.6.3.** The Spill Prevention Coordinator will be responsible for follow-up calls and reports to Regulatory Agencies.

- Identify the substance spilled or released. The MSDS will be consulted to determine: 1) what personal protective equipment (PPE) is needed, 2) the manufacturer's suggested cleanup procedures, and 3) any hazards presented by the substance (reactive with water, etc).

- If it is possible, the cause of the leak or release will be eliminated. This could involve placing a drum in an overpack drum, closing off a pipe, etc.

- The spill or release will be contained as well as possible. Appropriate spill containment equipment should be used such as absorbent, shovels, brooms, etc. If applicable spark proof cleanup equipment will be used.

- The spill will be cleaned up using methods described in the product MSDS or other references.

- All clean-up materials and impacted materials will be disposed of properly and according to Federal, State, and local requirements.

These same procedures will be followed if the spill or release involves a Section 313 Water Priority Chemical.

4.7 Routine Facility Inspections

Periodic visual inspections of the facility will be conducted to ensure that all of the elements of the plan are in place and working properly to prevent pollution of storm water runoff from the facility. These inspections will include raw metal storage areas, finished product storage areas, material and chemical storage areas, recycling areas, loading and unloading areas, equipment storage areas, and vehicle maintenance areas. The inspection forms are located in Appendix 3. The following will be implemented to facilitate visual inspections:

- Qualified, trained plant personnel will be designated to regularly inspect the facility's equipment and storage areas, evaluate existing storm water BMPs, track results of inspections, make necessary changes, and maintain records of all inspections

- Inspection records will note when inspections were done, who conducted the inspection, what areas were inspected, what problems were found, and what steps were taken to correct any problems.

All deficiencies in the implementation of the SWPPP found during the inspection will be corrected as soon as possible and no later than within 14 days of the inspection. Facility inspection records will be kept with the plan for at least three years after coverage under the permit terminates.

4.8 Employee Training

Limco Airepair will develop an employee-training program that covers spill prevention and response, good housekeeping, and material management practices. All employees will be required to sign in order to verify that training was provided. A sign in sheet is provided in Appendix 5.

The goals of this training program are to teach personnel, at all levels of responsibility, the components and goals of the storm water pollution prevention plan and to create overall sensitivity to storm water pollution prevention concerns. This training will be given to all employees and will be conducted on an annual basis by designated personnel. New employees will also be trained in the requirements of this program as part of the introductory training.

EPCRA, Section 313, Facility Requirements—There are additional training requirements for employees and contractor personnel who work in areas where EPCRA, Section 313, water priority chemicals are used or stored. These individuals will be trained in the following areas on an annual basis:

- ❖ Preventive measures, including spill prevention and response and preventive maintenance,
- ❖ Pollution control laws and regulations,
- ❖ The facility's pollution prevention plan, and
- ❖ Features and operations of the facility that are designed to minimize discharges of Section 313 water priority chemicals, particularly spill prevention procedures.

4.9 Sediment and Erosion Control

There are no areas of this facility that are significantly affected by erosion as 80% of the outside facility surfaces consist of asphalt and gravel, and the remaining surfaces consist of grass. These surfaces will be maintained in order to prevent future erosion or sediment problems.

4.10 Management of Runoff

The runoff from Limco Airepair is not of significant concern to warrant implementation of additional structural BMPs. The facility property is relatively flat, and storm water released from the facility property should be uncontaminated. If runoff problems are found during the periodic inspections, this plan will be modified and additional measures implemented.

Aquatic Resources of Concern

5.0 Documentation of Permit Eligibility Related to Endangered Species

Limco Airepair's storm water is discharged to the City of Tulsa's MS4, for which the receiving water is the Arkansas River by way of Mooser Creek. The following is the documentation supporting the facility's determination of permit eligibility.

5.1 Documentation of Screening

According to a topo map of the area surrounding the facility and the Aquatic Resources of Concern map in the MSGP, Limco Airepair's facility lies within an aquatic resource of concern.

5.2 Required Protection Measures and Implementation

Pollutants such as oil, grease, solid waste, human waste, hazardous or toxic material, or other material not authorized for discharge under this permit must be properly captured, treated, and correctly disposed of according to the MSGP. The only pollutants of concern for Limco Airepair are oil and grease and a small amount of toxic material from hazardous waste. Measures to address these possible pollutants have already been described in the plan. However, a short description is given below.

The majority of storm water that could be contaminated by hazardous waste will be captured in a secondary containment area. The water will be inspected before each release and again before it reaches the outfalls. If pollution of the water in the containment is evident, the water will be packaged in drums and sent off-site. Periodic facility inspections will be conducted as well to ensure that the containment device is functioning properly. This inspection will also ensure that all problems found are addressed immediately. Spill equipment is kept nearby for any spill that might occur as a result of a transportation problem; however, all employees driving forklifts are certified operators.

Pollutants such as oil and grease are not of large concern with this facility since the majority of oil and grease is used inside the facility building, and waste materials are kept in the hazardous waste accumulation area until pickup. Plant vehicles are inspected on a regular basis and maintained inside the facility building or off-site. These measures should eliminate storm water contamination from plant vehicles.

Monitoring and Reporting

6.0 Comprehensive Site Compliance Evaluation

Limco Airepair will have qualified personnel conduct an annual site compliance evaluation. The following will be carried out as part of the facility's compliance evaluation:

- Storm water discharge areas will be inspected for any evidence of pollutants entering the drainage system.

- The effectiveness of BMPs will be evaluated. Some questions that will be asked are:
  - Is the site cleaner?
  - Are the employees more familiar with good housekeeping measures and spill prevention and response practices?

- Structural measures, sediment controls, and all other storm water BMPs will be observed to ensure that they are functioning properly.

- Inspectors will look for industrial materials, residue or trash on the ground that could contaminate or be washed away in storm water; leaks or spills from industrial equipment, drums, barrels, tanks, or similar containers; offsite tracking of industrial materials or sediment where vehicles enter or exit the site; tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas; and for evidence of, or the potential for, pollutants entering the drainage system.

- Outside storage areas including the hazardous waste storage area, scrap metal storage, sand blasting sheds, plant trash containers, and drainage from roof will be evaluated.

The plan will be revised as needed within fourteen days of inspection. If existing BMPs need to be modified or if additional BMPs are necessary, implementation must be completed before the next anticipated storm event or as soon as practicable.

A report will be prepared and submitted on the proper forms summarizing inspection results and all follow-up actions. The report will be submitted between October 1 and November 30 of each year beginning in 2001. The report will be kept on file with the pollution prevention plan in Appendix 8.

6.1 Quarterly Visual Monitoring of Storm Water

Limco Airepair will conduct quarterly visual inspections of storm water discharged through facility outfalls. Instructions for collecting and evaluating the storm water are listed below, and the visual evaluation forms can be found in Appendix 4.

Storm water samples must be collected on a quarterly basis from Outfalls 1, 2, and 3 by a member of the pollution prevention team or a designated, qualified individual. The samples should be collected in clear and clean containers. The samples must be taken within thirty minutes of the beginning of discharge from a storm. If it is not possible to obtain a sample within the first thirty minutes, then a sample may be obtained any time up to one hour after the beginning of the discharge. The storm must be preceded by three days (72 hours) of no rain, and the storm must provide enough rain to cause a discharge through the outfalls. The samples should be evaluated for the following parameters: color, odor, clarity, oil sheen, particulate matter, foam, and any other noticeable items needing to be documented. Additional guidelines can be found in the permit on page 33 in Table 5-1. If any of the above test positive in the sample, immediately evaluate the facility site for the source of pollution. If possible, rectify the problem immediately. Document all information on the evaluation form. If pollution is occurring often, the facility will reevaluate the pollution prevention plan, and modify it in such a way as to eliminate the pollution problem.

The facility has five outfalls. Sampling will be conducted at three of the five outfalls. Sampling will not be conducted at Outfalls 4, and 5 since there is no industrial activity occurring in these areas.

6.2 Recordkeeping and Reporting

Limco Airepair will record and maintain records of spills, leaks, inspections, and maintenance activities for at least three years after the expiration of the permit at the facility on S. Lawton. When spills and leaks are involved, records should include information such as the date and time of the incident, weather conditions, cause, and the resulting environmental impact. The permit, permit authorization, copy of NOI, and applicable state or local plans or regulations will be kept in Appendix 7. In addition, the following documentation will be retained on file.

- A copy of the Notice of Intent and Permit Authorization.
- A copy of the permit requirements.
- Any applicable state or local plans or regulations.
- Information on process water discharge to the sanitary sewer.

- ❖ All inspection records.
- ❖ Records of actions taken in response to inspections.
- ❖ Visual storm water evaluation records.
- ❖ Annual Site Compliance Evaluation Reports.
- ❖ Spill or release records.
- ❖ Employee training records.

6.3 Maintaining an Updated SWPPP

If major changes occur in Limco Airepair's facility design, construction, operation, or maintenance, the storm water pollution prevention plan will be revised accordingly and in a timely fashion. The plan will also be amended if it is found during inspections that the plan is ineffective in eliminating or significantly minimizing pollutants or controlling pollutants in discharges from the facility.

Signature, Plan Review, and Making Plans Available

7.0 Required Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____

Tracy Callan, EHS Coordinator Date

7.1 Plan Location and Public Access

This plan will be kept on-site at Limco Airepair International, Inc. in Tulsa, Oklahoma as required. The plan and all information pertaining to the storm water permit will be kept for at least three years after the expiration of the permit.

7.2 Director-Required Plan Modifications

Upon reviewing this plan, the permitting authority may find that it does not meet one or more of the minimum standards established by the pollution prevention plan requirements. In this case, the permitting authority will notify the facility of the changes that must be made to improve the plan.

Appendices

1 Facility Layout, Pollutant List, and Topo Map

2 Spills and Leaks and Non-storm Water Discharge Assessment

3 Periodic Inspections and Contained Water Documentation

4 Quarterly Visual Inspections

5 Employee Training

6 Exposed Significant Materials and Inventory

7 Permit, Copy of NOI, Permit Authorization, and NPDES Information

8 Annual Compliance Evaluation Reports

WORKSHEET

LIST OF SIGNIFICANT SPILLS AND LEAKS	**COMPLETED BY:** **TITLE:** **DATE:**

Directions: Record below all significant spills and significant leaks of toxic or hazardous pollutants that have occurred at the facility in the three years prior to the effective date of the permit.

Definitions: Significant spills include, but are not limited to releases of oil or hazardous substances in excess of reportable quantities.

1st Year Prior

Date (month, day, year)	Spill	Leak	Location (as indicated on site map)	Description				Response Procedure		Preventive Measures Taken
				Type of Material	Quantity	Source, if known	Reason	Amount of Material Recovered	Material No Longer Exposed to Storm Water (True/False)	
NONE										

2nd Year Prior

Date (month, day, year)	Spill	Leak	Location (as indicated on site map	Description				Response Procedure		Preventive Measures Taken
				Type of Material	Quantity	Source, if known	Reason	Amount of Material Recovered	Material No Longer Exposed to Storm Water (True/False)	
NONE										

3rd Year Prior

Date (month, day, year)	Spill	Leak	Location (as indicated on site map	Description				Response Procedure		Preventive Measures Taken
				Type of Material	Quantity	Source, if known	Reason	Amount of Material Recovered	Material No Longer Exposed to Storm Water (True/False	
NONE										

WORKSHEET

NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION				COMPLETED BY: _____ TITLE: _____ DATE:	
Date of Test of Evaluation	**Outfall Directly Observed During the Test (identify as indicated on the site map)**	**Method Used to Test or Evaluate Discharge**	**Describe Results from Test for the Presence of Non-Storm Water Discharge**	**Identify Potential Significant Sources**	**Name of Person Who Conducted the Test or Evaluation**

CERTIFICATION

I, _____(responsible corporate official), certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print)
B. Area Code and Telephone No.

C. Signature
D. Date Signed

WORKSHEET

POLLUTANT SOURCE IDENTIFICATION

COMPLETED BY: _____
TITLE: _____
DATE: _____

Instructions: List all identified storm water pollutant sources and describe existing management practices that address those sources. In the third column, list BMP options that can be incorporated into the plan to address remaining sources of pollutants.

Storm Water Pollutant Sources	Existing Management Practices	Description of New BMP Options

WORKSHEET

IMPLEMENTATION

COMPLETED BY: _____
TITLE: _____ **DATE:**

Instructions: Develop a schedule for implementing each BMP. Provide a brief description of each BMP, the steps necessary to implement the BMP (i.e., any construction or design), the schedule for completing those steps (list dates) and the person (s) responsible for implementation.

BMPs	Description of Action (s) Required for Implementation	Scheduled Completion Date (s) for Req'd Action	Person Responsible for Action	Notes
Good Housekeeping	1.			
	2.			
	3.			
Preventive Maintenance	1.			
	2.			
	3.			
Inspections	1.			
	2.			
	3.			
Spill Prevention and Response	1.			
	2.			
	3.			
Sediment and Erosion Control	1.			
	2.			
	3.			
Management of Runoff	1.			
	2.			
	3.			
Additional BMPs (Activity and site-specific)	1.			
	2.			
	3.			

*FORM WILL BE COMPLETED BY INSPECTOR IF ANY DISCREPANCIES ARE FOUND ON THE INSPECTION FORM. THEN SUBMIT TO HUMAN RESOURCES FOR SCHEDULED COMPLETION AND RESPONSIBLE PERSON.

QUARTERLY INSPECTION FORM
LIMCO-AIREPAIR, INC.

Date:	Performed By:
	Signature:

Check For: Any discrepancies that have potential for pollution to storm water, including: leaks, improper containment, and changes in operations.

Areas To Be Checked (Check Mark Indicated No Problem):

Each Building (interior and exterior)		Maintenance Areas	
Outdoor material storage (Parts, scrap, etc)		Equipment (Rolling and Stationary)	
Outdoor fluid storage (waste oil containers, etc.)		Structural Control	

Description of Discrepancy and Report of Repair

	Discrepancy	Location	Repair Date
Signs of Leaks, Spills, Rubbish, or Debris			
Chemical Container Integrity and Storage			
Storm Water Mgmt. Devices Integrity (Drains, containment, etc.)			
Other Discrepancies:			

STORMWATER POLLUTION PREVENTION TRAINING RECORD

Date:_____ **Trainer:**_____

Topic:_____

PRINT NAME	DEPARTMENT

Summary of Training

_____

_____

_____

_____

_____

_____

OKR051059

LIMCO Airepair, Inc.

April 19, 2012

Amber McIntyre, Environmental Programs Specialist
Water Quality Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

RECEIVED
APR 25 2012
DEQ ECLS

Dear Amber McIntyre:

Enclosed you will find a modified SWP3 with the following changes:

1. General Location map that identifies the nearest receiving waters within one mile of the facility.
2. Maps have been updated (and enclosed) to include:
   a. The size of the property in acres-Outfalls and Water Flow map
   b. The location of significant structures and impervious surfaces-Outfalls and Water Flow Map
   c. Direction of storm water flow-Outfalls and Water Flow Map
   d. Locations of all existing structural BMP's-Outfalls and Water Flow Map
   e. Locations of surface waters on or adjacent to the facility, indicating if they are impaired and, if so, whether the waters have TMDL's established for them: -1) Limco Airepair Inc. Map Location Relative to Mooser Creek and the Arkansas River; ; 2) General Location Map-receiving Waters within One Mile; 3) TMDL for Mosser Creek E-Coli.
   f. Locations of all storm water conveyances including ditches and storm drains-Outfalls and Water Flow Map
   g. Locations of potential pollutant sources and where significant materials are exposed to storm water-Limco Airepair Material Storage Map
   h. Locations of where significant spills or leaks have occurred-(none have occurred, therefore none are listed)
   i. Locations of all storm water monitoring points-Outfalls and Water Flow Map
   j. Municipal separate storm sewer systems-(none)
   k. Locations of storm water inlets and outfalls and appropriate outline of the area draining to each outfall-Outfalls and Water Flow Map
   l. Location and description of all non-storm water discharges-Outfalls and Water Flow Map (None)
   m. Locations of where the following are located and exposed: fueling stations (none); vehicle and equipment maintenance and/or cleaning

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Phone (918) 445-4300

areas (all inside), loading/unloading areas (all inside); processing (none) and storage areas; locations for treatment (none), storage (listed on map), and disposal of waste (none); liquid storage tanks (none); access roads, rail lines used by carriers of materials/products (none); the location of any transfer area for substance in bulk (none); and machinery (none outside)- Limco Airepair. Materials Storage Map

   n. Location and source of run-on to the site from adjacent property that contains significant quantities of pollutants (none known) -General Location Map.

3. Enclosed is a certification that all discharges have been evaluated for the presence of non-storm water.
4. Enclosed is documentation of permit eligibility related to TMDL (printout from the ODEQ website GIS Map and Data Viewer). Waterbodies OK120420010070_00 (Mooser Creek) has 2010 303D TMDL's include E Coli. The 2008 303D TMDL's include E Coli. None of these TMDL's will be impacted by the storm water based on knowledge of the storm water runoff quality, (they are not parameters likely to be discharged by Limco Airepair storm water). Page 18 of the SWP3 plan refers to the TMDLs.
5. Emergency spill response procedures are located in the storm water SWP3 and also in the Limco Airepair Emergency Plan.
   a. Personnel responsible for the implementing of the plan in the event of a spill (include names, titles, and contact information): page 4, 14, and 15
   b. DEQ 24 hour complaints hotline number: page 5
   c. National Response Center phone number: page 5
   d. Name and number of an environmental cleanup company: page 15- Sooner Emergency Services
   e. Immediate procedures for cleanup/containment of both small and large spills: page 13, 14, and 15; procedures are also contained in the Limco Airepair Emergency Plan
6. The SWP3 must be consistent (and updated as necessary) with regulations: page 21, section 6.3 of the plan
7. A schedule has been included describing inspection practices that will be used to ensure that control measures are working effectively. Annual, Quarterly, Monthly and Weekly inspections.

Amber, please feel free to call me regarding information submitted or feel free to call Ed Liston (Paradigm EHS Consulting-918-605-0351) for additional information you might need.

Bill Williams,
Director of Facilities and EH&S

Storm Water Pollution Prevention Plan

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Storm Water Pollution Prevention Plan Goal

1.0 Introduction

The Oklahoma Department of Environmental Quality (DEQ) has issued the "Multi-sector General Permit OKR05 for Storm Water Discharges from Industrial Activities within the State of Oklahoma". This permit replaces general permit OKR05, which expired on May 2, 2011.

In compliance with the Clean Water Act (The Act, USC 125 *et seq.*) and with the provisions under the Oklahoma Pollutant Discharge Elimination System (OPDES), OAC 252:606-1-3(b)(3)(L) incorporating by reference 40 CFR 122.26, as amended, except as provided in Part I.2 of the permit, owners/operators of storm water discharges from industrial facilities, described by their Standard Industrial Classification Code or Activity Code specified in Part 1.2 and Table 1.2 of the permit are authorized to discharge in accordance with the conditions and requirements set forth in the permit. Only those owners/operators of storm water discharges from industrial activities who submit a Notice of Intent and receive authorization in accordance with Part 2 of the ODEQ permit are authorized under this general permit. This permit became effective on May 3, 2006. Facilities are given 90 days from this date to submit their Notice of Intent to discharge storm water. All currently permitted industrial facilities are required to reapply to the DEQ for coverage under the OKR05 permit. This permit and the authorization to discharge shall expire five years after the effective date.

BACKGROUND

On November 19, 1996, EPA Region 6 approved the State of Oklahoma's application for the DEQ to administer and enforce the National Pollutant Discharge Elimination System (NPDES) program for discharges of pollutants, including storm water discharges, within the State of Oklahoma. The DEQ issued its first Multi-Sector General Permit (MSGP) GP-00-01 on October 2, 2000. The permit was for discharges associated with industrial activities within 29 different sectors, each comprised of similar Standard Industrial Classification (SIC) Codes or activity codes (e.g. HZ, SE, LF, and TW).

The reissuance procedure for the permit is based on the Oklahoma Environmental Code found at Title 27A of the Oklahoma Statutes, Section 2-14-101, *et seq*, and rules found at Oklahoma Administrative Code (OAC) 252:004-7.

1.1 Purpose

The purpose of Limco Airepair's Storm Water Pollution Prevention Plan (PPP) is to control or eliminate the discharge of storm water pollutants from facility property. Limco Airepair's primary SIC of 3728 requires this business to obtain a storm water permit and prepare and submit a pollution prevention plan. Limco Airepair desires to ensure that the facility site is not contributing to storm water pollution and has prepared this pollution prevention plan in accordance with the rules and regulations of the Oklahoma Multi-Sector General Permit and Sector AB. The facility will conduct periodic inspections of facility property and will conduct quarterly visual evaluations as required by this plan.

Pollution Prevention Planning and Organization

2.0 Pollution Prevention Plan Team Members

As a first step in the process of implementing a storm water pollution prevention plan, a team of individuals have been selected to assist in its implementation. Members were selected based on the expertise of all relevant departments to ensure that all aspects of the operations are considered.

Pollution prevention team meetings will be held periodically to ensure that all portions of the pollution prevention plan are being implemented including visual monitoring and periodic inspections.

The pollution prevention team is responsible for the following:

- **Implementing** all general permit and pollution prevention plan requirements and attending periodic team meetings as required.
- **Defining** and agreeing upon an appropriate set of goals for the facility's storm water management program.
- **Being aware** of any changes that are made in plant operations to determine whether any changes must be made to the Storm Water Pollution Prevention Plan.
- **Maintaining** a clear line of communication with plant management to ensure a cooperative partnership.

The Pollution Prevention Plan Team Roster is on the following page.

POLLUTION PREVENTION TEAM MEMBER ROSTER	
Leader: Bill Williams	**Title:** Director of Facilities and EH&S
	Phone: (918) 445-4300 work (918) 607-3665 cell
Responsibilities: Implement the pollution prevention plan and ensure that employee training is conducted. Conduct quarterly visual sampling. Ensure periodic inspections are conducted, and follow-up on and make any needed repairs on items noticed during periodic or other inspections. Maintain all records pertaining to the storm water permit or plan.	
Member: Roy Camron	**Title:** Clean Line Lead
	Phone: (918) 445-4300
Responsibilities: Follow the pollution prevention plan, attend quarterly team meetings, and conduct periodic inspections of processes and potential pollution sources.	
Member: Robert Poggi	**Title:** Maintenance Tech
	Phone: (918) 445-4300
Responsibilities: Follow the pollution prevention plan, attend quarterly team meetings, and conduct periodic inspections of processes and potential pollution sources.	
Spill Response Coordinator: Bill Williams	**Title:** Director of Facilities and EH&S
	Phone: (918) 445-4300 work (918) 607-3665 cell
Responsibilities: Follow the pollution prevention plan, attend quarterly team meetings, and act as emergency response coordinator.	

2.1 Coordination With Other Facility Environmental/Safety Plans

The pollution prevention plan has been developed as a comprehensive, stand-alone document. Actions required as a result of any type of emergency including spills should follow the Emergency Action/Fire Prevention. Procedures for handling of hazardous chemicals are contained in the company Hazard Communication Program. There are no other plans, which relate to storm water pollution prevention.

2.2 Releases of Reportable Quantities of Hazardous Substances/Oil

The general permit provides that the discharge of hazardous substances or oil from a facility must be eliminated or minimized in accordance with the storm water pollution plan.

Oklahoma Department of Environmental Quality Reporting Requirements

Where a permitted storm water discharge contains a hazardous substance or oil producing sheen into waters of the state, Notify the Oklahoma DEQ as soon as there is knowledge of the discharge (800-522-0206). A written report shall be submitted within five (5) days to: ODEQ. Discharge Report and Response Center, P.O. Box 1677, Oklahoma City, Ok 73101-1677. The report shall include the date and time of incident, weather conditions, location, type, concentration and volume, cause, and any environmental problems.

EPA Spill Reporting Requirements

Where a permitted storm water discharge contains a hazardous substance or oil in an amount equal to or in excess of a reporting quantity established under 40 CFR Part 117, or 40 CFR Part 302 during a 24-hour period, the following actions must be taken: (at this time Limco Airepair does not have these materials)

- Notify the National Response Center as soon as there is knowledge of the discharge (800-424-8802)
- Modify plan within 14 days of knowledge of the release to provide a description of the release, account of circumstances, date of release, and preventive actions.
- Submit a report to the EPA within 14 days of knowledge of the release
- For spills and leaks, records should include information such as the date and time of the incident, weather conditions, cause, and resulting environmental problems. The incident should be entered in the Significant Spills Chart of this report.

Limco Airepair International Site Assessment

3.0 Facility Information

Limco Airepair International, Inc. owns approximately 4.3 acres of land on which one permanent building sits with a total of 170,000 ft^2 The facility began operations at this site in 1995. Prior to this date, the facility was owned and operated by an oil field tooling shop. A YMCA is located to the south of the facility, a wood pallet manufacturer to the west, and Pepsi is located to the east and north of the facility.

Facility diagrams been prepared that identifies building locations, storm water outfalls, distance to the Mosser Creek and the Arkansas River, possible pollutant sources, and drainage patterns on facility property. These diagrams are located in Section 2 of the manual. Structural storm water control measures, locations of past significant spills or releases, nearby water bodies, storm water runoff with significant potential for causing soil erosion, and locations of exposed significant materials or industrial activities, if present, are shown on these diagrams.

3.1 Municipal Separate Storm Sewer Systems & Receiving Waters

Limco Airepair's storm water is discharged to three storm drains located in the parking lot and over gravel parking areas to offsite locations. The storm water system discharge (outfall 2) and one other main storm outfall (outfall 1) located to the south of the facility have been selected for visual monitoring to ensure compliance with storm water requirements. Section 2 diagrams show the location of selected outfalls. The immediate receiving stream is Mooser Creek. The eventual receiving water is the Arkansas River which is approximately 0.55 miles east. Limco Airepair lies within the west bank corridor of the Arkansas River.

3.2 Materials Inventory: Possible Pollutants and Potential Impact

The materials inventory is designed to identify those materials that may have been or may be exposed to storm water at the facility. Attention is given to methods and locations of storage and disposal that could/would contribute to the contamination of storm water runoff. The inventory is conducted utilizing the Material Inventory Worksheet. Based on the material inventory, worksheet "Description of Exposed Significant Material" is used to describe

the significant materials that are currently exposed. Worksheets are in Section 3.

A facility audit was conducted on for the purpose of gathering information to design a facility layout, identifying possible sources of storm water pollution, identifying structural and nonstructural controls existing at the facility, and identifying Best Management Practices in place at the facility. As a result of the audit, the following list of exposed significant material was developed. The potential sources of pollution listed below have been assigned to different categories of risk to storm water including low, moderate, and high.

- Sand blasting sheds – low risk,
- Miscellaneous metal storage - negligible risk;
- Outside scrap metal container – contained - negligible risk;
- Outside storage of wood pallets and/or crates – negligible risk;
- Outside hazardous waste 90-day storage area – Covered storage area is equipped with concrete secondary containment capable of containing 110% of the volume of one drum. - Inspected weekly- moderate risk;
- Outside flammable liquid storage area – Covered storage area is equipped with concrete secondary containment capable of containing 110% of the volume of one drum. – inspected weekly- moderate risk;
- Plant vehicle traffic - The possibility exists of contaminating storm water with oil and grease, antifreeze, hydraulic fluid, etc. from employee owned vehicles. However this is considered a negligible risk, and
- Plant trash dumpsters - negligible risk;

The materials stored outside during the past three years consist of the same materials currently stored outside. A "Pollutant Source Identification" worksheet (Section 3) is available to identify those pollutants of concern.

3.3 Pollutants of Concern as Identified with Pollutant Sources

The pollutants of concern associated with the items identified in the previous section are as follows:

- Sand blasting – Storm water contamination with particulate matter, metals, and metal oxides if of concern. This is considered a negligible risk due to being in a fully enclosed building.
- Miscellaneous metal storage – There are two possible sources of pollution regarding metal storage. First, if the pH of the rain is acidic,

the possibility of polluting storm water with metals and metal oxides exists. Second, any oil and grease or material left on or in the metal like cutting fluids from use or manufacture is of concern for storm water pollution.

- Scrap metal container – In addition to possible contamination of storm water with metals, metal oxides, oil and grease, and cutting fluids, particulate matter contamination is likely. Scrap metal bens are water tight.

- Wood pallets and/or crates - There is a possibility of contamination of storm water with any materials that have been spilled on pallets during use and before outside storage. This is considered a negligible risk due to any contamination on wooden crates would be easily identifiable and corrected

- Hazardous waste storage area – hazardous solvent waste accumulation storage area (approximately twenty 55 gallon drums) located on the south side of the facility. Facility hazardous waste (paint and organic solvent waste) are accumulated in this area prior to being picked up and transported by an approved waste vendor. This is considered a moderate risk due to being storage area is equipped with concrete secondary containment capable of containing 110% of the volume of one drum. Dailey visual inspections and documented weekly inspections are conducted at this area. This is considered a moderate risk due to containment, routine inspections and improved housekeeping.

- Plant trash Compactor Trash compactor is an enclosed self-contained unit on a concrete pad. This is considered a negligible risk due to any surface contamination would be easily identifiable and corrected.

3.4 Description of Facility Operations

Limco Airepair conducts manufacturing, remanufacturing, and repair of heat exchangers for aircraft. The heat exchangers are made primarily from aluminum, stainless steel, and copper. The manufacturing process consists of grinding, welding, polishing, machining, dip cleaning, painting, etc. The equipment is put into wooden crates and stored inside the facility prior to shipping.

3.5 Facility Storage and Shipping/Receiving Areas

There is one outside storage area at Limco Airepair's facility. It is designated as the South Storage Area. Most raw material storage takes place inside the facility building or inside sheds located outside. Manufacturing operations

take place inside the facility building. Plant vehicles travel through all areas of the facility. The following materials are stored in the South Storage Area.

South Storage Area: The items located in this storage area consist of a scrap metal container, the 90-day hazardous waste accumulation point, wood pallets, miscellaneous metal, various wood crates, and sheds for storage.

Most materials are loaded and unloaded through the loading docks greatly minimizing contact of storm water with materials. However, wood crates and metals must occasionally be unloaded outside and brought into the facility via forklift. The shipping and receiving areas are located on the east and south sides of the facility.

3.6 Management of Materials

Limco Airepair is a large quantity generator of hazardous waste. This waste is generated from the painting process, clean line operations, and solvent cleaning operations and is removed from the facility at least once every 90 days by RINCO Treatment Services. The waste is stored in the 90-day accumulation area until removal. The storage area is equipped with concrete secondary containment capable of containing 110% of the volume of one drum. Spill containment equipment is maintained on site.

Scrap metal is generated from this facility. Two scrap metal accumulation container is located in the South Storage Area. The types of scrap metal generated include stainless steel, aluminum, and copper. The facility also has one plant trash compactor. All American Waste Management removes the trash as needed, and Advanced Metal Recovery removes the scrap metal from the facility approximately once every forty-five days.

This facility has a wastewater treatment process located inside the facility building. This operation removes metals and adjusts the pH of water from the clean line operations. The sludge from the system is disposed of in accordance with all waste rules and regulations, and the facility has an Industrial Wastewater Discharge permit from the City of Tulsa.

3.7 Structural and Nonstructural Storm Water Control Methods

Limco Airepair has several structural control measures in place in addition to nonstructural methods. Structural measures at the facility consist of an enclosed room for the air compressors, covered loading/unloading docks, and conveyances for storm water. Several sheds have been put in place for outside storage. Most of the facility (80%) consists of asphalt and gravel. The remaining 20% consists of grass. The roof is equipped with downspouts, and there are several storm drains on the facility property. Other structural methods consist of filters on exhaust air from the paint booth and blasting booth.

Another structural method is the containment for the hazardous waste accumulation and flammable liquid storage areas. Any storm water that is trapped in this area is evaluated for any signs of potential pollution. If there is any evidence that the water is contaminated, it will be drummed up and sent off-site for proper disposal. A form documenting these inspections is located in Section 4.

Nonstructural methods consist of a general policy of inside storage and parking of plant vehicles inside the facility building when not in use. Plant vehicles are maintained inside the facility building.

3.8 Spills or Leaks

Limco Airepair has not had any spills of any significance in the past three years as documented on the form in Section 3. The most likely place for a spill at the facility is inside the facility at the clean line operations, the solvent degreasing operations, and wastewater treatment operations, and outside of the facility at the waste accumulation point. It is highly unlikely that any spilled material would reach facility outfalls. The drainage point for these areas would be Outfalls 1 and 2. More information regarding spills can be found in Section 4 of this plan.

3.9 Sampling Data

Limco Airepair has documented previous inspections of storm water at facility outfalls. These records can be found on file at the facility. The facility will continue a storm water visual monitoring program as a requirement of this plan. Future records from monitoring will be maintained by the Director of Facilities and EH&S.

3.10 Non-Storm Water Discharge Evaluation

Non-storm water discharges are prohibited by the storm water permit except those authorized in Part 1.2.4 and listed below. This facility has a wastewater treatment process located inside the facility building. This operation removes metals and adjusts the pH of water from the clean line operations. The sludge from the system is disposed of in accordance with all waste rules and regulations, and the facility has an Industrial Wastewater Discharge permit from the City of Tulsa

The certification process is documented utilizing worksheet "Non-Storm Water Discharge Assessment and Certification". Failure to conduct the certification must be reported to the EPA using worksheet "Non-Storm Water Discharge Failure To Certify Notification". Forms are located in Section 3.

Allowable Non-Storm Water Discharges.

You are also authorized for the following non-storm water discharges, provided the non-storm water component of your discharge is in compliance uncontaminated.

1. Fire hydrant flushings;
2. Potable water including drinking fountain water and water line flushings;
3. Uncontaminated air conditioning or compressor condensate;
4. Irrigation drainage;
5. Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with manufacturer's instructions;
6. Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
7. Routine external building wash down which does not use detergents;
8. Uncontaminated ground water or spring water;
9. Foundation or footing drains where flows are not contaminated with process materials such as solvents;
10. Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but NOT intentional discharges from the cooling tower (e.g.,"piped" cooling tower blow down or drains).
11. Discharges or flows from emergency firefighting activities will be allowed, if measures are taken to reduce any such pollutant releases.

3.11 Summary of Potential Pollutant Sources

Pollutant sources are shown in section 3.3.

Best Management Practices

4.0 Purpose of Best Management Practices

Oklahoma's Multi-Sector General Permit requires the incorporation of the following Best Management Practices (BMPs) into the pollution prevention plan: (A) Good Housekeeping, (B) Minimizing Exposure, (C) Preventive Maintenance, (D) Spill Prevention and Response Procedures, (E) Routine Facility Inspections, (F) Employee Training, (G) Sediment and Erosion Control, and (H) Management of Runoff. These BMPs are discussed in the following sections. Worksheet "Pollutant Source Identification" can be used to list pollutant sources, existing management practices, and a description of new BMP options. Worksheet "BMP Identification" can be used to describe BMPs that have been selected to minimize storm water pollution. Worksheet "Implementation" is available to be used to develop a schedule for implementing each BMP. Worksheets are available in Section 3.

4.1 Good Housekeeping

Good housekeeping practices are designed to maintain a clean and orderly work environment. Often the most effective first step towards preventing pollution in storm water from industrial sites involves merely using good common sense to improve the facility's basic housekeeping methods. The following are some simple procedures that have been incorporated into an effective good housekeeping program:

- **Improve** operation and maintenance of industrial machinery and processes.
- **Implement** careful material storage practices. Minimize outside raw materials and oils. If storage is outside, elevate and cover the material. All buckets and barrels should be stored inside or if outside, stored elevated and covered.
- **Maintain** up-to-date material inventory.
    - Identify all chemical substances present in the workplace.
    - Label all containers showing name and type of substance, stock number, etc.

- **Schedule** routine cleanup operations and regular garbage and waste material pickups. Outside spills of metal shavings should be routinely cleaned up.

- **Maintain** well-organized work areas.

- **Train** employees about good housekeeping practices.

- **Conduct** routine inspections for leaks or spill, condition of drums, tanks, and containers.

4.2 Minimizing Exposure

Where practicable, Limco Airepair has made it policy to protect industrial materials and activities by a storm resistant shelter with the goal of preventing exposure to rain, snow, snowmelt, or runoff. Some examples of this policy include the inside storage of materials, material storage sheds, and plant trash dumpsters equipped with lids.

4.3 Preventive Maintenance

Limco Airepair has developed a preventive maintenance program that involves inspections and maintenance of storm water management devices and routine inspections of facility operations to detect faulty equipment. Equipment (such as air compressors, forklifts, and other oil containing equipment) will be checked regularly for signs of deterioration. All inspections must be documented on the forms supplied in Section 4.

- All chemical storage containers including drums and totes are labeled.

- Storm water outfalls are inspected regularly to ensure that there has been no contamination.

- All oil storage containers, full and empty, are inspected on a regular basis.

- Maintain equipment to prevent leaks (forklifts, compressors, and other equipment). All plant vehicles are inspected on a regular basis for fluid leaks. If problems are detected, the vehicle will be taken out of service until repaired. Vehicle service is performed offsite.

- Spill equipment is inspected to ensure its readiness.

- Conditions that could lead to direct contact of storm water with raw materials, waste materials or products,

Any items found during inspection must be corrected immediately. If a leak or release is found, it must be immediately reported.

4.4 Spill Prevention Considerations

Areas where spills are likely to occur and their drainage points are clearly identified in Section 3.8 of this plan. Employees are aware of response procedures, including material handling and storage requirements. Access to spill equipment at the facility will be provided where appropriate.

- ❖ Adopt good housekeeping practices.
- ❖ Perform regular visual inspections to identify areas for potential leaks or spills.
- ❖ Recycle, reduce, and reuse process materials to minimize waste onsite.
- ❖ Monitor operations and methods conducted by outside vendors or contractors when picking up waste oil or delivering oils

4.5 Spill Response

Limco Airepair's Spill Response consists of the following items:

- ❖ Identification of safety measures.
- ❖ Development of procedures for notifying appropriate authorities in the event of a spill.
- ❖ Identification of spill containment, diversion, isolation, and cleanup practices.

4.5.1 Spill Response Team

The spill response team is composed of the members of the storm water pollution prevention team. The Spill Response Coordinator is the Director of facilities and EH&S. Additional members may be added to the team as required.

4.5.2 Spill Response Safety Measures

Limco Airepair's safety measures are comprised of the following:

- ❖ Notification – Upon discovery of spill or release, the Spill Response Coordinator or a member of the Spill Response Team should be notified immediately.
- ❖ Awareness and Safety - Employees should not attempt a response until

the substance, its dangers, and proper personal protective equipment have been identified. The Spill Response Team will identify the hazards associated with the substance and proper personal protective equipment required by consulting the product MSDS and/or container labels.

4.5.3 Spill Notification

If Limco Airepair experiences a spill the Spill Response Coordinator or a member of the Spill Response Team will take action listed in section 2.2.

4.5.4 Spill Containment, Diversion, Isolation, and Cleanup Practices

Material Safety Data Sheets identify the appropriate procedures and materials to use for spill abatement and cleanup of the named product. Appropriate cleanup materials and equipment will be kept in areas where materials are handled or stored, and which have a high potential for spills (Hazardous Waste Storage Area). Reference should be made to the Limco Airepair Emergency Action Plan for additional information (materials, emergency equipment).

If a spill or release occurs, the following steps will be followed in order:

- The Spill Response Coordinator or other member of the spill response team will be notified of the spill or release immediately.

- The Spill Prevention Coordinator or appropriate individual will determine if the spill\release is "reportable," and immediately notify the appropriate Regulatory agencies. **Agency telephone numbers are in Section 2.2.** The Spill Prevention Coordinator will be responsible for follow-up calls and reports to Regulatory Agencies.

- Call 9-911 if the incident poses a fire hazard (larger spill), outside help from the Tulsa Fire Department should be obtained.

- If cleanup or containment is needed beyond a small spill or what would be an incidental spill, Sooner Emergency Services should be called for this service. The emergency response hotline is 1-800-722-4901. Their address is 2131 S. 49th W. Ave, Tulsa, Ok 74107.

- Identify the substance spilled or released. The MSDS will be consulted to determine: 1) what personal protective equipment (PPE) is needed, 2) the manufacturer's suggested cleanup procedures, and 3) any hazards presented by the substance (reactive with water, etc).

- If it is possible, the cause of the leak or release will be eliminated. This could involve placing a drum in an over pack drum, closing off a pipe, etc.

- ❖ The spill will be contained as well as possible. Appropriate spill containment equipment should be used such as absorbent, shovels, brooms, etc. Equipment available is listed in the emergency plan.

- ❖ The spill will be cleaned up using methods described in the product MSDS or other references.

- ❖ All clean-up materials and impacted materials will be disposed of properly and according to Federal, State, and local requirements.

4.6 Routine Facility Inspections

Quarterly inspections of the facility will be conducted to ensure that all of the elements of the plan are in place and working properly to prevent pollution of storm water runoff from the facility. These inspections will include raw metal storage areas, finished product storage areas, material and chemical storage areas, recycling areas, loading and unloading areas, equipment storage areas, and vehicle maintenance areas. The inspection forms are located in Section 4. The following will be implemented to facilitate visual inspections:

- ❖ Qualified, trained plant personnel will be designated to regularly inspect the facility's equipment and storage areas, evaluate existing storm water BMPs, track results of inspections, make necessary changes, and maintain records of all inspections

- ❖ Inspection records will note when inspections were done, who conducted the inspection, what areas were inspected, what problems were found, and what steps were taken to correct any problems.

All deficiencies in the implementation of the SWPPP found during the inspection will be corrected as soon as possible and no later than within 14 days of the inspection. Facility inspection records will be kept with the plan for at least three years after coverage under the permit terminates.

4.7 Employee Training

Limco Airepair will develop an employee-training program that covers spill prevention and response, good housekeeping, and material management practices. All employees will be required to sign in order to verify that training was provided. A sign in sheet is provided in Section 5.

The goals of this training program are to teach personnel, at all levels of responsibility, the components and goals of the storm water pollution prevention plan and to create overall sensitivity to storm water pollution prevention concerns. This training will be given to all employees and will be conducted on an annual basis by designated personnel. New employees will

also be trained in the requirements of this program as part of the introductory training.

These individuals will be trained in the following areas on an annual basis:

- Preventive measures, spill prevention/response and preventive maintenance: Clearly identify potential spill areas and drainage routes. Familiarize employees with past spill events; explain why they happened and the resulting environmental impact. Review emergency contacts and telephone numbers. Inform personnel who pollution prevention team members are. Review spill clean-up procedures. Review applicable sections of the Emergency Action/Fire Prevention Plan and Hazard Communication Program.

- Material Handling and Storage: Inform employees as to which materials are hazardous and where those materials are stored. Inform employees on the importance of container labels, recycling practices, waste storage procedures, importance of keeping valves tightly closed and drums securely sealed, and how to properly fuel vehicles and avoid "topping off" (filling vehicle to the capacity to where it overflows).

- The facility's pollution prevention plan, and

- Good Housekeeping: review of basic cleanup procedures, i.e. sweeping, oil cleanup, trash pickup, etc. Indicate proper waste disposal locations for each type of refuse. Inform employees where routine cleanup equipment is stored.

4.8 Sediment and Erosion Control

There are no areas of this facility that are significantly affected by erosion as 80% of the outside facility surfaces consist of asphalt and gravel, and the remaining surfaces consist of grass. These surfaces will be maintained in order to prevent future erosion or sediment problems.

4.9 Management of Runoff

The runoff from Limco Airepair is not of significant concern to warrant implementation of additional structural BMPs. The facility property is relatively flat, and storm water released from the facility property should be uncontaminated. If runoff problems are found during the periodic inspections, this plan will be modified and additional measures implemented.

Aquatic Resources of Concern

5.0 Federal or State Sensitive Waters or Watersheds

Limco Airepair's storm water is discharged to Mooser Creek. This creek runs into the Arkansas River located 0.55 miles to the East. Maps in section 2 show the relationship to sensitive areas. TMDLs have been established for the receiving portion of Mooser Creek, water body OK120420010070_00, 3.9 mile section. TMDLs include E Coli. None of these TMDL's will be impacted by the storm water based on knowledge of the storm water runoff quality (they are not parameters likely to be discharged by Limco Airepair. storm water). However, This SWP3 will be monitored closely in order to not contribute pollutants that will impact the TMDLs associated with this portion of Mooser Creek.

Monitoring and Reporting

6.0 Comprehensive Site Compliance Evaluation

Limco Airepair will have qualified personnel conduct an annual site compliance evaluation. The following will be carried out as part of the facility's compliance evaluation:

- Storm water discharge areas will be inspected for any evidence of pollutants entering the drainage system.

- The effectiveness of BMPs will be evaluated. Some questions that will be asked are:
  - Is the site clean?
  - Are the employees more familiar with good housekeeping measures and spill prevention and response practices?

- Structural measures, sediment controls, and all other storm water BMPs will be observed to ensure that they are functioning properly.

- Inspectors will look for industrial materials, residue or trash on the ground that could contaminate or be washed away in storm water; leaks or spills from industrial equipment, drums, barrels, tanks, or similar containers; and for evidence of, or the potential for, pollutants entering the drainage system.

- Outside storage areas including the hazardous waste storage area, scrap metal storage, sand blasting sheds, plant trash containers, and drainage from roof will be evaluated.

The plan will be revised as needed within fourteen days of inspection. If existing BMPs need to be modified or if additional BMPs are necessary, implementation must be completed before the next anticipated storm event or as soon as practicable.

A report will be prepared and submitted on the proper forms summarizing inspection results and all follow-up actions. The report will be submitted by March 1st of the year. The report will be kept on file with the pollution prevention plan in Section 6.

6.1 *Quarterly Visual Monitoring of Storm Water*

Limco Airepair will conduct quarterly visual inspections of storm water discharged through facility outfalls. Instructions for collecting and evaluating

the storm water are listed below, and the visual evaluation forms can be found in Section 7.

Storm water samples must be collected on a quarterly basis from by a member of the pollution prevention team or a designated, qualified individual. Outfalls 1, and 2 (Section 2) have industrial activity associated with them and therefore will be examined quarterly. Where practicable, the same individual will carry out the collection and examination of discharges throughout the life of the permit to ensure the greatest degree of consistency. The visual examination must be made during daylight hours. The samples should be collected in clear and clean containers. No analytical tests are required to be performed on the samples. The samples must be taken within thirty minutes of the beginning of discharge from a storm. If it is not possible to obtain a sample within the first thirty minutes, then a sample may be obtained any time up to one hour after the beginning of the discharge. The storm must be preceded by three days (72 hours) of no rain, and the storm event must be greater than 0.1 inches in magnitude The samples should be evaluated for the following parameters: color, odor, clarity, oil sheen, floating solids, settled solids, suspended solids, foam, and any other noticeable items needing to be documented. If any of the above test positive in the sample, immediately evaluate the facility site for the source of pollution. If possible, rectify the problem immediately. Document all information on the evaluation form. If pollution is occurring often, the facility will reevaluate the pollution prevention plan, and modify it in such a way as to eliminate the pollution problem.

6.2 Recordkeeping and Reporting

Limco Airepair will record and maintain records of spills, leaks, inspections, and maintenance activities for at least three years after the expiration of the permit. When spills and leaks are involved, records should include information such as the date and time of the incident, weather conditions, cause, and the resulting environmental impact. The permit, permit authorization, copy of NOI, and applicable state or local plans or regulations will be kept in Section 8. In addition, the following documentation will be retained on file

- A copy of the Notice of Intent and Permit Authorization.
- A copy of the permit requirements.
- Any applicable state or local plans or regulations.
- Information on process water discharge to the sanitary sewer.
- All inspection records.
- Records of actions taken in response to inspections.

- Visual storm water evaluation records.
- Annual Site Compliance Evaluation Reports.
- Spill or release records.
- Employee training records.

6.3 Maintaining an Updated SWPPP

If major changes occur in Limco Airepair's facility design, construction, operation, or maintenance, the storm water pollution prevention plan will be revised accordingly and in a timely fashion. The plan will also be amended if it is found during inspections that the plan is ineffective in eliminating or significantly minimizing pollutants or controlling pollutants in discharges from the facility.

The plan will also require updates as necessary to remain consistent with applicable municipal, or local storm water, waste disposal, sanitary sewer regulations to the extent these apply to the facility.

Signature, Plan Review, and Making Plans Available

7.0 Required Signature

I certify under penalty of law that I have read and understand the requirement for this Storm Water Pollution Prevention Plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

4-20-12

Bill Williams, Director of Facilities and EH&S — Date

7.1 Plan Location and Public Access

This plan will be kept on-site at Limco Airepair International, Inc. in Tulsa, Oklahoma as required. The plan and all information pertaining to the storm water permit will be kept for at least three years after the expiration of the permit.

Appendices

Section 2: Facility Layout, Maps, Aquatic Area of Concern

Section 3: Worksheets

Section 4: Periodic Inspections and Contained Water Documentation

Section 5: Employee Training

Section 6: Annual Compliance Evaluation Reports

Section 7: Quarterly Visual Examinations

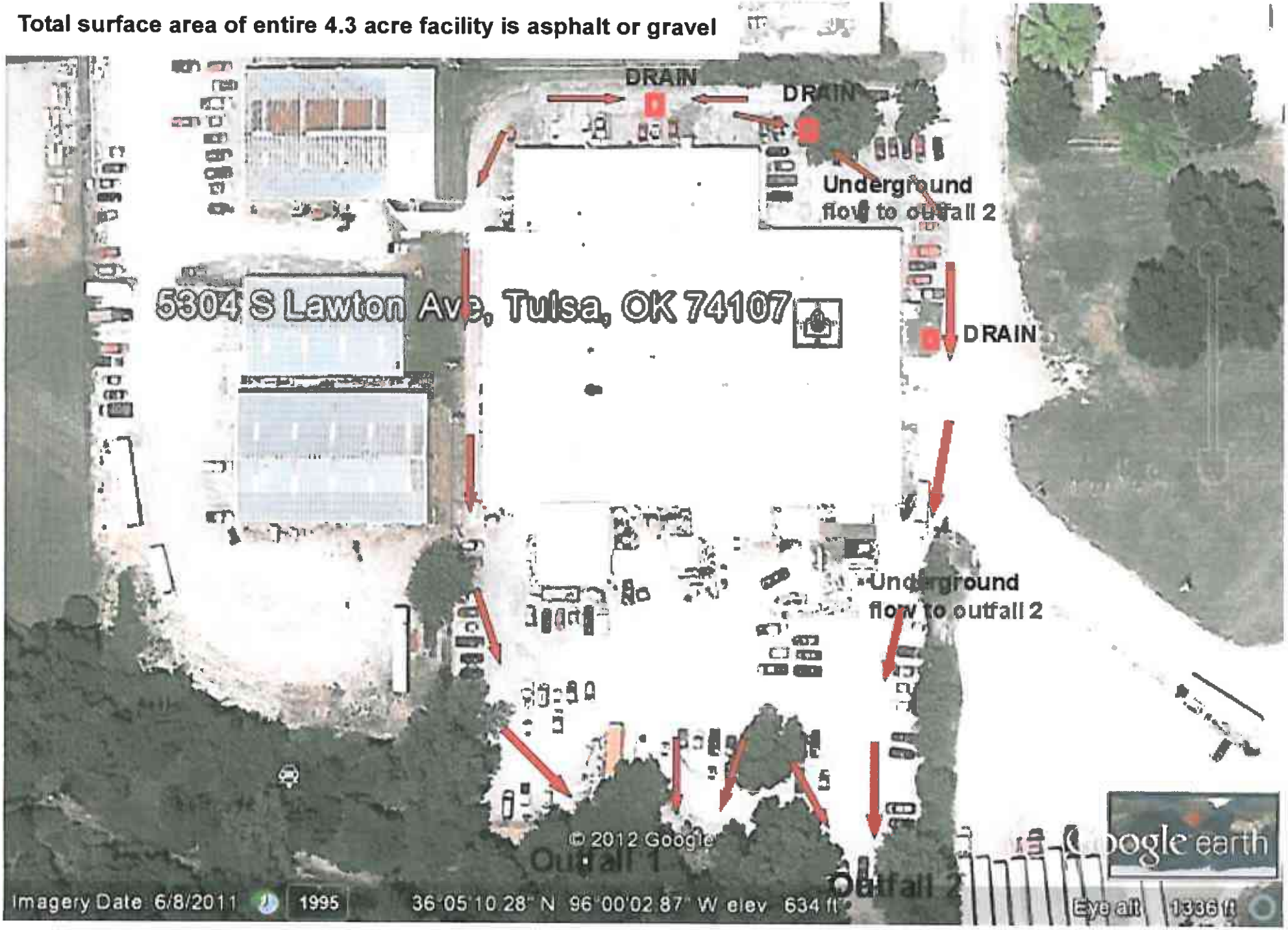
Section 8: Permits, Copy of NOI, Permit Authorization & Information

LIMCO AIREPAIR, INC.
GENERAL LOCATION MAP-RECEIVING WATERS WITHIN ONE MILE

Limco Airepair
5304 S Lawton Ave, Tulsa, OK 74107
0.55 mile to
Arkansas River
W 47th St
S Tacoma Ave
S Santa Fe Ave
S Nogales Ave
S Maybelle Ave
49th St
S Indian Ave
S 4th W Ave
Orange Dr
Cherry Creek Rd
75
W 51st St S
66
Houston Ave
River Parks West Trail
© 2012 Google
Google earth

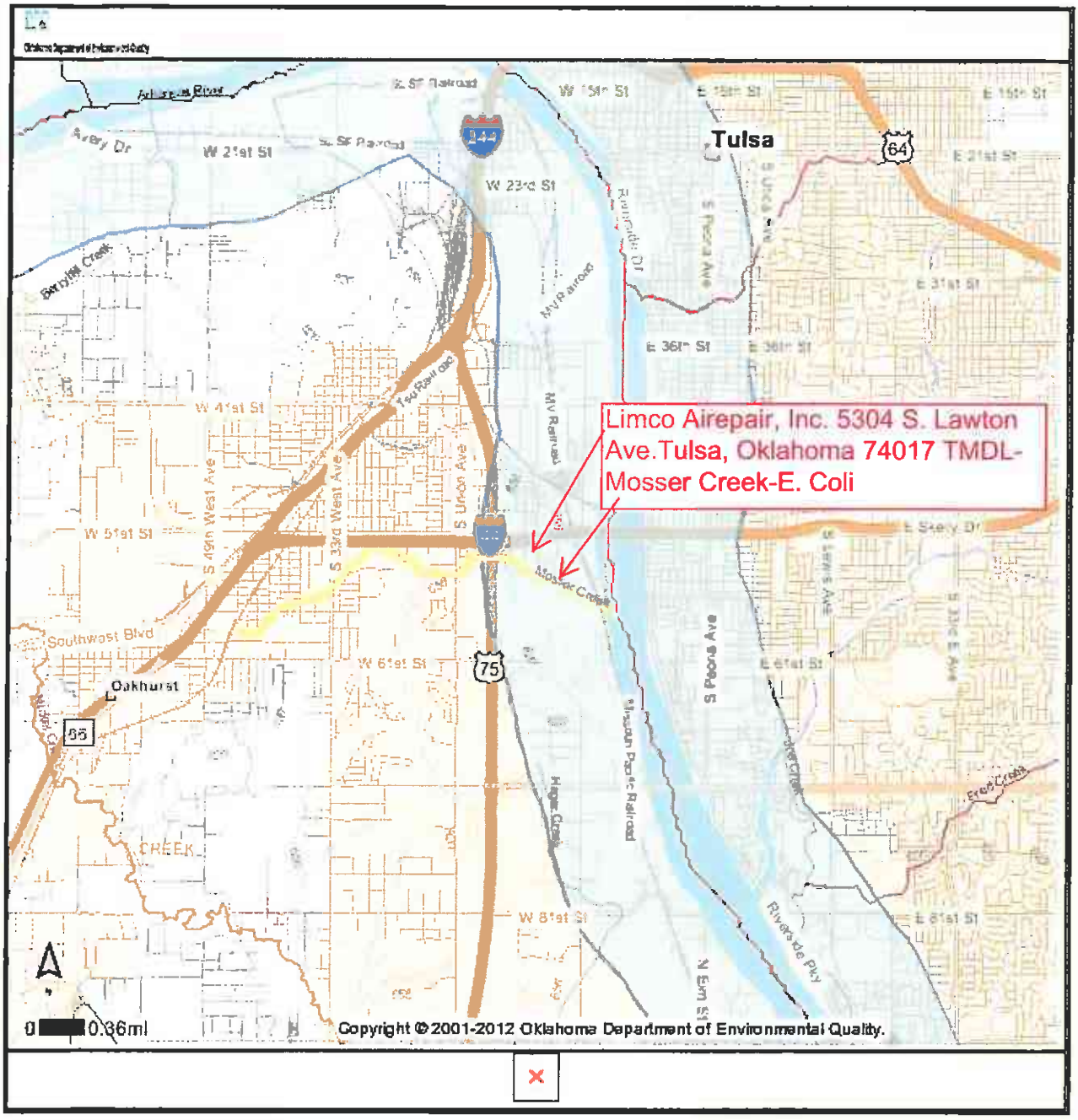
Limco Airepair Outfalls and Water Flow
5304 S Lawton Ave TULSA, OKLAHOMA

Total surface area of entire 4.3 acre facility is asphalt or gravel



LIMCO AIREPAIR, INC
LOCATION RELATIVE TO MOSSER CREEK AND THE ARKANSAS RIVER

LIMCO AIREPAIR, INC
TMDL FOR MOSSER CREEK-E. COLI



Limco Airepair
Material Storage

NON-STORM WATER DISCHARGE ASSESSMENT AND CERTIFICATION				COMPLETED BY: TITLE: Ed Liston, Paradigm EHS, Consulting DATE: April 9, 2012	
Date of Test of Evaluation	**Outfall Directly Observed During the Test (identify as indicated on the site map)**	**Method Used to Test or Evaluate Discharge**	**Describe Results from Test for the Presence of Non-Storm Water Discharge**	**Identify Potential Significant Sources**	**Name of Person Who Conducted the Test or Evaluation**
April 5, 2012	Complete walk through of entire facility-outfalls 1 and 2	Visual observation	No water flow	None	Ed Liston and Bill Williams

CERTIFICATION

I, Bill Williams (responsible corporate official), certify under penalty of law that I have read and understand the requirement for this Storm Water Pollution Prevention Plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print): Bill Williams, Director of Facilities and EH&S
B. Area Code and Telephone No. 918 455 4300

C. Signature
D. Date Signed Bill Williams 4-20-12

LIMCO AIREPAIR

ENVIRONMENTAL, SAFETY, AND HEALTH COMPLIANCE ASSURANCE PLAN

2012 COMPANY & REGULATORY REQUIREMENTS CALENDAR

Revised 4/16/2012

Environmental, Safety & Health Inspection List	Driver	Frequency	Responsible Person	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TAA Inspection	DEQ/EPA	Weekly	Bill Williams												
Storm Water Visual Reports	DEQ/EPA	Quarterly	Bill Williams												
Storm Water Annual Report	DEQ/EPA	Annual	Bill Williams /Paradigm												
Hazardous Waste Area Documented Inspection	DEQ/EPA	Weekly	Bill Williams												
Hazardous Waste Area Visual Inspection	Internal Policy	Dailey	Robert Pogi												
Scrap Metal Bin Inspection	Internal Policy	Dailey	Robert Pogi												
Trash Compactor Inspection	Internal Policy	Dailey	Robert Pogi												
Flammable Storage Area Inspection	Internal Policy	Dailey	Robert Pogi												

OKR051059

NON-STORM WATER DISCHARGE ASSESSMENT	**Completed by:** Ed Liston **Title:** EH&S Professional **Date:** November 11, 2011

Directions: List all outfalls tested, the date of the test, the type of evaluation, possible pollutants, and person conducting evaluation.

Outfall Observed	Date	Type of Evaluation	Possible Pollutants	Evaluator
Outfall 1 East	11/11/11	Visual Observation	Oil and grease, antifreeze, hydraulic fluid, particulate matter, metals, metal oxides, organics, and hazardous waste	Ed Liston
Outfall 2 West	11/11/11	Visual Observation	Oil and grease, antifreeze, hydraulic fluid, particulate matter, metals, metal oxides, organics, and hazardous waste	Ed Liston

Non-storm water discharges were not observed during the evaluation.

Authorized facility non-storm water discharges consist of:

- Uncontaminated air conditioning and compressor condensate and
- Potable water from fire suppression system flushing and hydrants.

LIMCO AIREPAIR INTERNATIONAL DATE:

CLASS: STORM WATER POLLUTION PREVENTION
INSTRUCTOR:

NAME (PLEASE PRINT) SIGNATURE

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____
21. _____
22. _____

Outfalls and Associated Pollutants

Outfalls 1 and 2: Possible Pollutants include:

- oil and grease,
- antifreeze,
- hydraulic fluid,
- particulate matter,
- metals,
- metal oxides,
- organics, and
- hazardous waste.

Limco Airepair International

Quarterly Visual Sampling Documentation

Date of Analysis:
Time of Analysis:
Evaluation Performed By:
Outfall:

Parameters Evaluated	**Result of Evaluation**
Color	_____
Odor	_____
Clarity	_____
Oil Sheen	_____
Particulate Matter	_____
Foam	_____
Other:	_____

If any of the above test positive in the sample, immediately evaluate facility site for source of pollution. If possible, rectify the problem immediately. Document all information below.

_____
_____
_____
_____
_____
_____
_____

Limco Airepair International

Periodic Facility Inspection Documentation

Date of Inspection:
Time of Inspection:
Evaluation Performed By:

Inspection of:	**Result of Inspection**
Hazardous Waste Accumulation Area	
Scrap Metal Storage	
All Material Storage Areas	
Wood Pallet/Crate Storage	
Chemical and Paint Storage	
Loading Docks	
Storm Water Drains	
Wastewater Treatment Area	
Facility Grounds	
Plant Vehicles	
Other:	

If any of the above results indicate potential problems for storm water contamination, immediately evaluate facility site for resulting pollution. If possible, rectify the problem immediately. Document all information below.

_____
_____
_____
_____
_____
_____

Significant Spills and Leaks					Completed by: Ed Liston Title: EH&S Professional Date: 11/11/2011	
Directions: Record below all significant spills and significant leaks of toxic or hazardous pollutants that have occurred at the facility in the three years prior to the effective date of the permit.						
Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.						
1st Year Prior						
Date	**Spill**	**Leak**	**Location**	**Description**	**Response Procedure**	**Preventive Measures Taken**
None						
2rdYear Prior						
Date	**Spill**	**Leak**	**Location**	**Description**	**Response Procedure**	**Preventive Measures Taken**
None						
3rd Year Prior						
Date	**Spill**	**Leak**	**Location**	**Description**	**Response Procedure**	**Preventive Measures Taken**
None						

Description of Exposed Significant Material					Completed by: Ed Liston Title: EH&S Professional Date: 11/11/2011
Instructions: Based on your material inventory, describe the significant materials that were exposed to storm water during the past three years and/or are currently exposed.					
Description of Exposed Significant Material	**Period of Exposure**	**Quantity Exposed (units)**	**Location (as indicated on the site map)**	**Method of Storage or Disposal (e.g., pile, drum, tank)**	**Description of Material Management Practice (e.g., pile covered, drum sealed)**
Miscellaneous Metal Storage	24/7	Varies	South Storage Area	On the ground	The material is stored over gravel.
Scrap Metal	24/7	2 containers	South Storage Area	The scrap metal is stored in a container.	The container is located over gravel.
Wood Pallets/Crates	24/7	Varies	South Storage Area	Piles on gravel	The pallets/crates are stored over gravel.
Hazardous Waste Accumulation Area	24/7	Varies	South Storage Area	Material is stored in drums	The drums are stored in a covered concrete secondary containment area.
Plant Vehicle Traffic	24/7	3 propane forklifts	North Storage Area		The forklifts are stored inside the facility at night.
Plant Trash and Cardboard Dumpsters	24/7	1 container	East Side Storage Area	The plant trash and cardboard are stored in compactor.	The compactor is equipped with a lid.

Limco Airepair International

Contained Water Sampling Documentation

Date of Analysis:
Time of Analysis:
Evaluation Performed By:
Time of Release:

Parameters Evaluated	**Result of Evaluation in Containment**
Color	_____
Odor	_____
Clarity	_____
Oil Sheen	_____
Particulate Matter	_____
Foam	_____
Other:	_____

If any of the above tests positive in the sample, do not dispose of water to storm sewer or facility property. No contaminated water is to be released from the secondary containment area. Document all information below.

_____
_____
_____
_____
_____
_____
_____

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JAN 2012

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Abby Lazar
A & M Enginerring and Enviromental Srevices, Inc
Tulsa, OK 74128

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Bill Williams
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

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...1 4 if Restricted Delivery is desired.
...t your name and address on the reverse
...hat we can return the card to you.
...ach this card to the back of the mailpiece,
...on the front if space permits.

...cle Addressed to:

...by Lazar
... M Enginerring and Enviromental Srevices, Inc.
...sa, OK 74128

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Brenda Hughes ☐ Agent ☐ Addressee

B. Received by (Printed Name) Brenda Hughes C. Date of Delivery 1/6/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

...ype
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

...icle Number
...nsfer from service label) 7011 0470 0000 6364 8782

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bill Williams
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Bill Williams ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 0470 0000 6364 8775

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OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

January 15, 2013

Bill Williams
Director of Facilities, Maintenance, and
Environmental Health and Safety
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

RE: Limco Airepair

Dear Mr. Williams:

My name is Jordan Caldwell and I have been assigned as the ODEQ Project Manager for this site. Please refer future correspondence to me.

Our last communication regarding the Limco Airepair site was on February 6, 2012. It was my understanding that site characterization activities had been put on hold due to some internal staff restructuring. Are you still Using A&M Engineering and Environmental Services as your consultant and if so, who is your current contact? Within 30 days of receipt of this letter, please provide an update on the status of the site including any recent sample results or future plans for the site characterization work.

Sincerely,

C. Jordan Caldwell
Environmental Programs Specialist
DEQ Land Protection Division
Voluntary Cleanup Program
(405) 702-5134

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Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
5304 South Lawton Avenue
Tulsa, OK 74107

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City,...

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- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
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1. Article Addressed to:

Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
5304 South Lawton Avenue
Tulsa, OK 74107

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A. Signature
X ☐ Agent ☐ Addressee

B. Received by (*Printed Name*) C. Date of Delivery

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4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*)

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

Tulsa, OK 74107

RE: Limco Airepair

Dear Mr. Williams:

My name is Jordan Caldwell and I have been assigned as the ODEQ Project Manager for this site. Please refer future correspondence to me.

7010 3090 0003 4434 6185

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7010 3090 0003 4434 6185

7010 3090 0003 4434 6185

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or P

City

Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
5304 South Lawton Avenue
Tulsa, OK 74107

PS Form 3800, August 2006 See Reverse for Instructions

...2. It was my
...internal staff
...as your
...letter, please
...ture plans for

DEQ Land Protection Division
Voluntary Cleanup Program
(405) 702-5134

LAND PROTECTION DIVISION
CONTROL SHEET

Subject: Limco Airgear Request for Update Program Code 29206241 1

Type of Letter: ✓

Date Draft Submitted: 1/9/13

Send Copies to: _____

		Initials	Date
1.	Typist Jordan Caldwell	OJC	1/9/13
2.	Preparer (Add or mark through names listed below as appropriate for review of this letter)		

Letters to be submitted in draft (not on letterhead) form to the following:

3.	Preparer's Supervisor Ray Roberts	RR	1-9-13
4.	Compliance		
5.	Attorney/Legal		
6.	Clerical Linda Yarber	LY	1-15-13
7.	Signatory Jordan Caldwell	OJC	1/15/13
8.			

Final letter (prepared on letterhead & ready for mailing) to be submitted to the following:

1.	Preparer (I have re-read this letter for content & quality)		
2.	Data Entry (if applicable)		
3.	Clerical Linda Yarber	LY	1-15-13
4.	Preparer's Supervisor Ray Roberts	RR	1/15/13
5.	Signature Jordan Caldwell	OJC	1/15/13

Letter will be returned to clerical person for copying and mailing.

Date letter mailed/Initial: 1-16-13 LY

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(This control sheet is to be attached to file copy of **final letter** and placed in facility file.)

Revised 4/29/03

LIMCO Airepair, Inc.

RECEIVED
MAR 18 2009
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

March 16, 2009

Oklahoma Department of Environmental Quality
Land Protection Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Enclosed is our Phase II ESA report for your review. Please advise of any action required on our part.

Abby Gleeson from A & M Engineering performed the study and asked that I emphasize that the upgradient test hole had higher concentrations than downgradient holes, with the exception of TH-2 and the Trichloroethylene concentration.

Regards,

Dan Kraft
Sr. V.P./COO
Limco Airepair, Inc.
Tel: 918-445-4330
Fax: 918-445-2210
Email: dank@limcoairepair.com

MEMORANDUM

DATE: May 8, 2013

TO: Mark Hardisty, Finance
Bernice Green, Finance
Robert Singletary, Legal
Project File

FR: Ray Roberts, LPD RR

RE: Closure / Removal of Voluntary Cleanup Site

Regarding Case _09-303_, Program Code_292062411_ The _Limco Air repair site in Tulsa, Oklahoma has been removed as an active Voluntary Cleanup/Cost Reimbursement Site.

Reason for removal:

____ Cleanup to Residential Standards

____ Cleanup to Residential Standards with deed notice required

____ Cleanup to Industrial Standards with deed notice required

____ Withdrew from Program

____ Removed from Program due to inactivity

____ Referred to another program for possible enforcement

XX Other:

____Withdrew from Program
_____
_____
_____

Effective 15 days from the date of this memorandum, there should be no more charges made to this MACO or CO account.

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

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CERTIFIED MAIL, RETURN RECEIPT REQUESTED

May 9, 2013

Bill Williams
Director of Facilities, Maintenance, and
Environmental Health and Safety
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

RE: Limco Airepair Withdrawl

Dear Mr. Williams:

Per our previous conversation, it is my understanding that you no longer wish to continue participation in the Voluntary Cleanup Program. We have started the process of closing the file and reimbursing you the remaining funds left in your account with us. Could you provide a letter confirming your desire to leave the program to finalize this process? Thank you for your assistance in this matter.

Sincerely,

C. Jordan Caldwell
Environmental Programs Specialist
DEQ Land Protection Division
Voluntary Cleanup Program
(405) 702-5134

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MAY 9 2013

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Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
5304 South Lawton Avenue
Tulsa, OK 74107

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Stree[illegible] or PO[illegible]

City, [illegible]

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1. Article Addressed to:

Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
5304 South Lawton Avenue
Tulsa, OK 74107

A. Signature

X Deborah Mitchell

☒ Agent
☐ Addressee

B. Received by (*Printed Name*)

Deborah Mitchell

C. Date of Delivery

5/13/13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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MAY 15 2013

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Oklahoma City, OK 73101-1677

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

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1. Article Addressed to:

Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
5304 South Lawton Avenue
Tulsa, OK 74107

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service lab) 7011 1150 0000 0559 2995

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

participation in the Voluntary Cleanup Program. We have started the process of closing the file [illegible] you the remaining funds left in your account with us. Could you provide a letter [illegible] this process? Thank you for your

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Sent To Bill Williams
Environmental Health & Safety
Limco Airepair, Environmental Safety
Street, Apt. No., or PO Box No. 5304 South Lawton Avenue
City, State, ZIP+4 Tulsa, OK 74107

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LAND PROTECTION DIVISION
CONTROL SHEET

Program Code 624

Subject: Linco Airepair

Type of Letter: Closure Finalization (withdrawl)

Date Draft Submitted: 5/9/13

Send Copies to: _____

		Initials	Date
1.	Typist Jordan Caldwell	OSC	5/9/13
2.	Preparer (Add or mark through names listed below as appropriate for review of this letter)		

Letters to be submitted in draft (not on letterhead) form to the following:

3.	Preparer's Supervisor Ray Roberts	RR	5/9/13
4.	Compliance		
5.	Attorney/Legal		
6.	Clerical		
7.	Signatory		
8.			

Final letter (prepared on letterhead & ready for mailing) to be submitted to the following:

1.	Preparer (I have re-read this letter for content & quality)		
2.	Data Entry (if applicable)		
3.	Clerical Linda Yarber	LY	5-7-13
4.	Preparer's Supervisor Ray Roberts	RR	5/9/13
5.	Signature Jordan Caldwell	OSC	5/9/13

Letter will be returned to clerical person for copying and mailing.

Date letter mailed/Initial: 5-9-13 LY

Certified Mail # See Copy

(This control sheet is to be attached to file copy of **final letter** and placed in facility file.)

Revised 4/29/03

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

May 15, 2009

Dan Kraft, Sr.V.P./COO
Limco Airepair, Inc.
5304 South Lawton Avenue
Tulsa, OK 74107

Re: Limco Airepair Phase II Report

Dear Mr. Kraft:

We have reviewed the Limited Phase II Environmental Site Assessment by A&M Engineering and Environmental Services, Inc., dated February 10, 2009 and we have the following comments.

In our opinion, three soil samples and four water samples would not be enough to evaluate a site of this size and complexity. Groundwater in TH-2 significantly exceeded the maximum contaminant level for Trichloroethylene (TCE). Based on its location by the hazardous drum storage, you have a documented environmental issue that would require further evaluation. Several metals exceed MCLs which could also indicate a problem.

I am attaching information regarding our Voluntary Cleanup Program.

Sincerely,

Kerry Paul
Environmental Programs Specialist
Land Protection Division

Attachments (2)

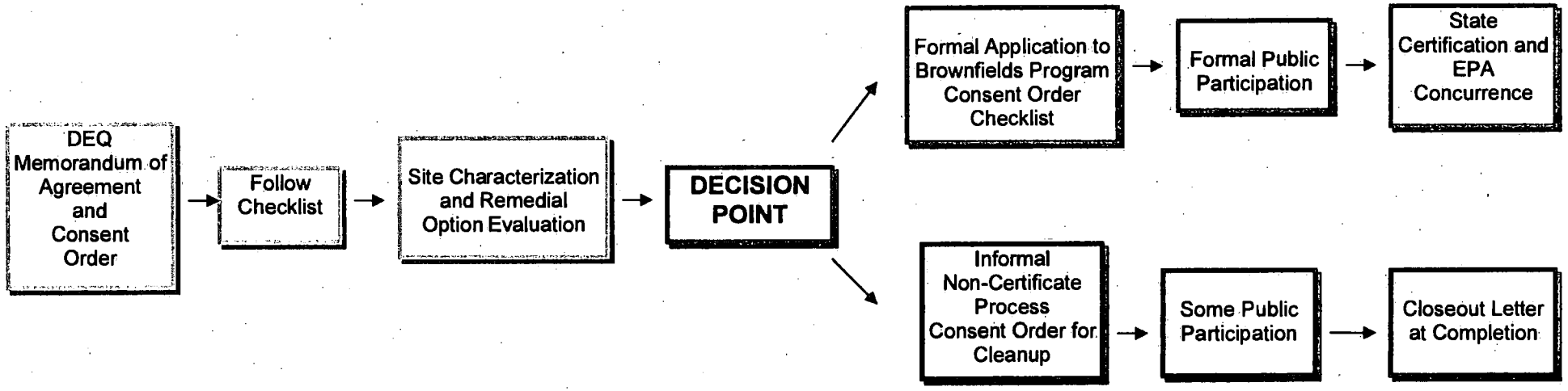
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

BROWNFIELDS AND VOLUNTARY CLEANUP PROGRAM STRUCTURE*

* under revision

Pre-application Phase (Site Characterization)

Post-application Phase (Cleanup)



CHECKLIST for ALL VOLUNTARY CLEANUP PROJECTS

STEP ONE **MEMORANDUM of AGREEMENT and CONSENT ORDER (MACO)**

_____ Pre-application conference. [OAC 252:002-15-30(a)]

_____ Two copies of each relevant Affidavit. [OAC 252:002-15-30(b)(3)]

_____ Of applicant as landowner [OAC 252:002-15-30(b)(3)] OR

_____ Of notice to landowner [Ibid]; and

_____ Of landowner [Ibid], if not applicant

_____ MACO signed by applicant & DEQ.

STEP TWO **DATA GATHERING & DOCUMENT PREPARATION**

PART ONE

_____ SITE CHARACTERIZATION [OAC 252:220-5-1]

_____ Work plan [OAC 252:220-5-1(b)]; and

_____Quality assurance project plan (QAPP); and

_____Sampling and analysis plan (SAP); and

_____Health and safety plan (HSP); and a

_____Site Characterization Report [OAC 252:220-5-1(c)(1)-(7)]

_____Summary of a title search document (1); and

_____Complete operational history of the site (2); and

_____Information about the current use(s) of the property (3); and

_____Documentation which identifies all potential receptors, human and ecological, and potential contamination migration pathways (4); and

_____Delineation of all sources of contamination associated with the site, including contaminated soil, and the location, size, constituents and concentrations of each source (5); and

_____Delineation of the nature and extent of contamination (6); and

_____Any site specific information requested by the DEQ (7).

PART TWO

_____ RISK ASSESSMENT [OAC 252:220-5-2]

_____ Future use of the property identified [OAC 252:220-5-2(a)] as

_____ Industrial/commercial _____ Agricultural _____ Residential

_____Default risk-based cleanup levels calculated based on future use of the property [OAC 252:220-5-2(b)]; or

_____Site-specific risk assessment performed to produce site-specific risk-based cleanup levels based on future use of the property.[Ibid]

PART THREE

_____ REMEDIAL OPTION EVALUATION [OAC 252:220-5-3]

_____ Remedial option(s) identified [OAC 252:220-5-3(a)]

_____For each identified remedial option, a narrative discussion of

_____ Risk-based cleanup levels; and

_____Economic feasibility; and

_____Technical feasibility; and

_____Reliability; and

_____Institutional controls needed to maintain future use of the site [OAC 252:220-5-3(a)]

PART FOUR

_____ REMEDIATION PLAN FOR PREFERRED OPTION [OAC 252:220-5-4]

_____The preferred option identified [OAC 252:220-5-3(b)]

_____The remedial action objectives (RAOs) [OAC 252:220-5-4(b)(1)]; and

_____All applicable state and federal laws, rules, standards, limitations, criteria and requirements (sort of an ARAR thing) [Ibid @ (2)]; and

_____Methods to verify how risk-based cleanup levels will be achieved [Ibid @ (3)]; and

_____Future monitoring and maintenance requirements [Ibid @ (4)].

STATUTORY REQUIREMENTS for BROWNFIELDS APPLICATIONS [27A O.S.Supp.1997, §2-15-105(B)(1)-(8)]

_____A description of the property (1)(a); and

_____The concentrations of contaminants (1)(b) in the

_____soils (Ibid),

_____surface water (Ibid), or

_____ groundwater at the site (Ibid); and,

_____The air releases which may occur during remediation of the site (1)(c), and

_____Any monitoring which is to occur after issuance of the Certificate (1)(d); and

_____A remediation plan or a proposal for no action (2); and

_____The current and proposed use of groundwater on and near the site (3); and

_____The operational history of the site (4); and

_____The current use of areas contiguous to the site (4); and

_____The present and proposed uses of the site (5);

_____Information concerning

_____The nature and extent of any contamination and releases of contaminants which have occurred at the site (6); and

_____ Any possible impacts on areas contiguous to the site (6);

_____Any analytical results or other data which characterizes the soil, groundwater or surface water on the site (7); and

_____An analysis of the human pathways to exposure from contamination at the site based upon the property's future use (8); and

_____An analysis of the environmental pathways to exposure from contamination at the site based upon the property's future use (8).

_____ **Statutory requirement [27A O.S. Supp. 1997, §2-15-105(C)]** Based on the potential risk to human health and safety and to the environment posed by the environmental contamination caused by regulated substances at the site, the applicant considered

_____The possibility of movement of the contamination in a form and manner which would result in exposure to humans and to the surrounding environment at levels which exceed applicable standards or which represent an unreasonable risk to human health and safety, or the environment as determined by the DEQ; and

_____Potential risks associated with the remediation proposal or no action necessary determination and the economic and technical feasibility and reliability of that proposal or determination.

LAND PROTECTION DIVISION
CONTROL SHEET

Program Code 082

Subject: Limro Airepair

Type of Letter: response to Ph. II

Date Draft Submitted: 4·17·09

Send Copies to: ———

		Initials	Date
1.	Typist		
2.	Preparer (Add or mark through names listed below as appropriate for review of this letter)	KR	4·17·09

Letters to be submitted in draft (not on letterhead) form to the following:

3.	Preparer's Supervisor Ray Lobert	RR	5/15/09
4.	Compliance		
5.	Attorney/Legal		
6.	Clerical		
7.	Signatory		
8.			

Final letter (prepared on letterhead & ready for mailing) to be submitted to the following:

1.	Preparer (I have re-read this letter for content & quality)	KR	5·15·09
2.	Data Entry (if applicable)		
3.	Clerical		
4.	Preparer's Supervisor	* RR	5/19/09
5.	Signature	*	5·19·09

Letter will be returned to clerical person for copying and mailing.

Date letter mailed/Initial: 5/19/09 LY

Certified Mail # ———

(This control sheet is to be attached to file copy of **final letter** and placed in facility file.)

Revised 4/29/03

SNEED | LANG | HERROLD

ATTORNEYS AND COUNSELORS AT LAW

Andrew T. Harrison
Attorney

aharrison@sneedlangherrold.com

October 30, 2009

RECEIVED
NOV - 2 2009
DEQ LEGAL

Barbara Rauch, Esq.
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Limco Airepair, Inc. Memorandum of Agreement and Consent Order.

Dear Barbara:

I am pleased to enclose the signed Memorandum of Agreement and Consent Order on behalf of Limco Airepair, Inc. I look forward to continuing to work with you to fully resolve the environmental concerns at the site.

Please call me once DEQ has signed off on the agreement so that we may discuss moving forward. Thank you.

Very truly yours,

Andrew T. Harrison

ATH:*pnc*
Enclosure
cc

This document was delayed while we waited for original signature and another correction.

B Rauch
11/18/09

ROUTING SLIP

DATE: November 3, 2009

TO: Steven A. Thompson
Executive Director

THROUGH: Sarah Penn SEP
Deputy General Counsel

THROUGH: Scott Thompson
LPD Division Director

FROM: Barbara Rauch
Supervising Attorney

SUBJECT: MACO
Limco Airepair, Inc.
Tulsa, Oklahoma

REQUEST: One signature, please.

RETURN TO: Debbie Ray
Legal Secretary

Historical activities that are the source of contamination being investigated appear to have been caused by chemicals spilled on the property incident to manufacturing activities at the site. The company would like to join our voluntary cleanup program to characterize the contamination in the soil and groundwater.

No penalties or SEPS are required of a voluntary project such as this.

copy for: Finance
Ray Roberts
Sandra (original)

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION

IN THE MATTER OF:	)	
	)	
LIMCO AIREPAIR, INC.,	)	Case No.: 09-303
	)	
RESPONDENT.	)	

OKLAHOMA
DEPT. OF ENVIRONMENTAL QUALI

NOV 20 2009

FILED BY: _____
HEARING CLERK

MEMORANDUM OF AGREEMENT AND CONSENT ORDER FOR SITE CHARACTERIZATION

The parties to this case, the Oklahoma Department of Environmental Quality ("DEQ") and Limco Airepair, Inc. ("Respondent") (collectively, "Parties"), agree to this Memorandum of Agreement and Consent Order for Site Characterization ("MACO") in order to resolve certain environmental regulatory issues. At the time of the execution of this MACO, Respondent is entering the DEQ's Voluntary Cleanup Program ("VCP").

FINDINGS OF FACT

1. Respondent is Limco Airepair, Inc.

2. Respondent's real property being characterized pursuant to this MACO ("Site") is located at 5304 South Lawton Avenue, Tulsa, Oklahoma. Respondent is the owner of the Site.

3. Respondent informs the DEQ that historical activities, that are the source of, or may have contributed to the potential contamination being investigated, appear to have been caused by chemicals that were either spilled onto the property incident to manufacturing activities being conducted on the site or that were leaked onto the property from an off-site location.

4. Respondent informs the DEQ that the following environmental permits, registrations, authorizations, orders, enforcement actions or National Priorities List (NPL)

activities are applicable to the respondent or the Site:

Environmental Permits
➢ Tier 2 (State) - A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.
➢ TRIS (Federal) – Toxic Chemical Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.
➢ AIRS – (State) – Permitted AIRS facility (air permit)
➢ RCRA – LQG (Federal) – Resource Conservation Recovery Act – Large Quantity Generator. RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.
➢ NPDES – National Pollutant Discharge Elimination System.
➢ Storm Water Pollution Prevention Plan (SP3).
➢ EPA Form "R".
Environmental registrations
• The subject site facility, Limco Airepair is reported to be a RCRA-LQG (EPA ID: OKR000000612). The facility was originally reported to be a Small Quantity Generator in 1995 but changed to a LQG in 2000. The facility generates the following wastes: solvents (lacquer thinner), caustic acid (sodium hydroxide), chromium, trichloroethylene, solvent mixtures (toluene, methyl ethyl ketone), and cadmium. The facility had 19 reported violations in January 1999 and as of July 1999 all 19 violations were in compliance. Two (2) additional violations were reported in January 2007 and were in compliance as of March 9, 2007. The violations consisted of used oil

generators, pre-transport generator and general generators and the 19 violations from 1999 were informal written violations. According to EDR and EPA information, the Limco Airepair facility is currently in compliance.
• The subject site is reported on the Tier 2 database (Facility ID: FATR200724U7GT002YBJ). Since the facility stores certain chemicals on-site, it is required to report those chemicals, the stored quantity, the type of storage container, and location of each chemical. The reported chemicals on the Tier 2 include: Hydrogen Fluoride, Nitric Acid (>40%), and Sulfuric Acid. There have been no reported releases of these chemicals on-site.
• The subject site is reported to be a TRIS facility (Facility ID: 74107LMCRP53). Currently the subject site releases approximate 8,260 pounds of Toluene (TRI Chemical ID: 000108883) from fugitive or non-point air emissions. Any Toluene waste is transferred to an off-site facility for treatment and disposal. The facility previously released Methyl Ethyl Ketone and Trichloroethylene but no longer generates these chemicals. Limco Airepair is currently in compliance with their Air Quality Permit.
Current and Historical Environmental Conditions (Violations)
• RCRA violations
Use Oil – Generators (Determined 1/30/2007 and Compliant 3/09/2007)
Generators – Pre-transport (Determined 1/30/2007 and Compliant 3/09/2007)
Generators – General (Regulation FR 262.34(a)(2)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(4)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.31(a)(4)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(c)(1)(ii)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(3)) (Determined

01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation SR 252:520-2-7) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34b) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.11) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262334(a)(1)(i)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation SR 205-5-1) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 268.7(a)(7)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(c)(1)(i)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(1)(1)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.23(a)(3)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.23(a)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(c)(2)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.11(A)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(1)(i)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(1)(ii)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)

5. Respondent informs the DEQ that, to its knowledge, the following

conditions currently exist or have existed in the past at the Site that are or were not in compliance with any environmental laws or regulations:

Compliance Summary
• 01/30/2007 Compliance Evaluation Inspection On-site (Generators Pre-Transport) (achieved compliance on 03/09/2007)
• 01/30/2007 Compliance Evaluation Inspection On-site (Used Oil Generators) (achieved compliance on 03/09/2007)
• 01/19/1999 Compliance Evaluation Inspection On-site (Generators – General) (achieved compliance on 07/06/1999

6. Respondent states that it first notified the DEQ of the environmental conditions that are the subject of this MACO in February, 2009 by written correspondence. Subsequently, on September 2, 2009, a meeting was held at the offices of the DEQ in Oklahoma City, to discuss addressing the contamination through the DEQ VCP and/or Brownfield Programs. Respondent first became aware of the possible contamination in December of 2008. Prior to the execution of this MACO, the DEQ provided assistance to Respondent by informing Respondent of the technical requirements and procedures for participating in the Brownfield Program; and

7. Respondent informs the DEQ that the harm that has resulted or is expected to result from the conditions at the Site is a release, or potential release, of contaminants to soil and groundwater at the Site.

8. The parties agree that it is beneficial to resolve these matters promptly and by agreement and, as to this matter, waive the filing of a petition or other pleading, and Respondent waives the right to a hearing.

CONCLUSIONS OF LAW

9. The DEQ has regulatory jurisdiction and authority in this matter, and Respondent is subject to the jurisdiction and authority of the DEQ under Oklahoma law, including but not limited to the Oklahoma Environmental Quality Act, 27A O.S. §1-1-101 *et seq.* and the Oklahoma Environmental Quality Code, specifically 27A Okla. Statutes (O.S.) §§ 2-6-105, 2 –7– 123, 2-10-301(H), and 2-15-101 *et seq.* and applicable rules.

10. The Parties are authorized by 75 O.S. §309(E) and 27A O.S. §2-3-506(B) to resolve this matter by agreement.

11. If the Respondent remediates the Site to risk based standards, Respondent acknowledges that the DEQ shall file a Notice of Remediation in the land records of the county in which the property is located unless said property is remediated to unrestricted use. Respondent shall grant an easement to the DEQ for ingress and egress to assure ongoing protection of the Remedy as provided in the deed notice.

12. The DEQ acknowledges that Respondent has submitted various technical documents for review and comment, including but not limited to the following: Limited Phase I and II Environmental Site Assessments prepared by A&M Engineering Services, Inc.

13. Respondent does not admit any Conclusions of Law.

ORDER

14. Within thirty (30) days of effective date of this MACO, Respondent will submit to the DEQ a Work Plan to characterize the Site in conformance with guidance documents recommended by the DEQ including a Quality Assurance Project Plan (QAPP), a Sampling and Analysis Plan (SAP) and a Health and Safety Plan (HSP) for the site.

15. The SAP must contain schedules for completion of each task and shall not be implemented until after approval of the Work Plan by the DEQ. If the DEQ determines that the results of the SAP indicate the need for additional tasks to be performed by Respondent to properly characterize the Site, Respondent and DEQ shall negotiate an amendment to the SAP that is acceptable to the parties.

16. If either Party believes work needs to be performed prior to completion of the Site Characterization, Respondent or the DEQ may request the performance of a Removal Action (RA) or an Interim Remedial Measure (IRM).

17. Within thirty (30) days after completing the tasks outlined in the Work Plan, Respondent shall submit a Site Characterization Report to the DEQ in accordance with guidance documents provided by the DEQ at its website,

http://www.deq.state.ok.us/ lpdnew/ FactSheets/SiteCharacterizationTemplate.

18. Within thirty (30) days from the effective date of this Order, Respondent shall submit a valid check for $5,000.00. The check shall be mailed to: Comptroller, Administrative Services Division, Department of Environmental Quality, P.O. Box 2036, Oklahoma City, Oklahoma, 73101-2036 and shall reference the case number and case name. The DEQ will establish an account for Respondent with the funds referenced herein above, from which the DEQ will draw to pay its costs necessary for oversight of tasks set forth in this MACO and, if a deed notice is filed by the DEQ, to pay the filing fee pursuant to Oklahoma law. The DEQ oversight costs will include all reasonably-incurred direct costs of the DEQ's oversight arrangement for the investigation including, but not limited to, time and travel costs of DEQ personnel, contractor costs, and the costs of collecting and analyzing split samples. The salary and fringe benefit component of

oversight costs will be charged as direct costs. Indirect costs for on-Site and off-Site oversight will be charged at the current federal percentage rate until a new indirect cost rate is negotiated with the United States Environmental Protection Agency, at which time the negotiated rate will be used. The DEQ will provide a written quarterly accounting to Respondent documenting the receipt and disbursement of the funds referenced herein above. When and if the balance of Respondent's account falls below $500.00, the DEQ will notify Respondent in writing, and Respondent will submit a check for a sum sufficient to bring the account balance back to $5,000.00. Respondent will have the right to audit any accounting submitted by the DEQ at Respondent's expense. The DEQ will promptly credit any overcharges to Respondent's account. Upon completion of the tasks set forth in this MACO the DEQ will promptly return any funds remaining in Respondent's account to Respondent.

19. Respondent must also include a description of the monitoring which is to occur after issuance of the Certificate of Completion or Certificate of No Action Necessary and a summary of a title search document.

20. With the exception of DEQ approved RAs or IRMs, a Consent Order for Remediation will be negotiated and signed by the DEQ and Respondent before remedial work is begun at the Site.

GENERAL PROVISIONS

21. Upon their approval by the DEQ, any final reports, plans, specifications, schedules and attachments required under this MACO are incorporated into it and enforceable under it. Failure of Respondent to respond within a reasonable time to any

errors, deficiencies or other regulatory requirements identified by the DEQ is a violation of this MACO.

22. No informal advice, guidance, suggestions or comments by employees of the DEQ regarding reports, plans, specifications, schedules, and other writings relieve or modify Respondent's obligation to obtain written approval by the DEQ, when required by this MACO.

23. Respondent agrees to allow agents of the DEQ entry onto the site at reasonable times and without advance notice, for the purposes of inspecting, sampling, testing, records review and other authorized activities to assess compliance with this MACO. If Respondent is required to sample or test, Respondent agrees to give the DEQ reasonable notice of the sampling or testing date and time and allow the DEQ to observe and/or split-sample.

24. Nothing in this MACO relieves Respondent of its obligation to comply with all applicable federal, state and local statutes, rules and ordinances.

25. This MACO is enforceable as a final order of the Executive Director of the DEQ. The DEQ will retain jurisdiction of this matter for the purposes of interpreting, implementing and enforcing the terms and conditions of this MACO and for the purpose of resolving disputes.

26. Nothing in this MACO limits the DEQ's right to take enforcement action for violations discovered or occurring after the effective date of this MACO.

27. Respondent and the DEQ agree that the provisions of this MACO should be considered severable, and should a court of competent jurisdiction find any provisions to be

inconsistent with state or federal law and therefore unenforceable, the remaining provisions will remain in full force and effect.

28. The provisions of this MACO apply to and are binding upon Respondent and their officers, directors, employees, agents, successors and assigns. No change in the ownership or corporate status of Respondent will alter Respondent's responsibilities under this MACO.

29. Neither the fact that Respondent and the DEQ have entered into this MACO, nor the Findings of Fact and Conclusions of Law, shall be used for any purpose in this or any other proceeding except the enforcement by the parties of this MACO. As to others who are not parties, nothing contained in this MACO is an admission by Respondent of the Findings of Fact or Conclusions of Law, and entry into this MACO is not an admission by Respondent of liability for conditions at or near the facility or a waiver of any right, cause of action or defense Respondent otherwise has.

30. Respondent and the DEQ agree that the venue of any action in district court for the purposes of interpretation, implementation and enforcement of this MACO will be Oklahoma County, Oklahoma.

31. The requirements of this MACO will be considered satisfied and this MACO terminated when Respondent receives written notice from the DEQ that Respondent has demonstrated that all the terms of the MACO have been completed to the satisfaction of the DEQ.

32. The parties may amend this MACO by mutual consent. Such amendments must be in writing and the effective date of the amendments will be the date on which they are signed by the DEQ.

33. Unless otherwise specified, any report, notice or other communication required under this MACO must be in writing and must be sent by mail or by electronic submission or both to:

Legal:	Andrew T. Harrison, Esq. SNEED LANG HERROLD, P.C. 1700 Williams Center Tower I 74136 One West Third Street Tulsa, Oklahoma 74103	Technical:	A&M Engineering Services 10010 East 16th Street Tulsa, Oklahoma

The designated persons may be changed by letter to the signatories and incorporated herein by reference without amending this Order.

34. The individuals signing this MACO certify that they are authorized to sign it and to legally bind the parties they represent.

35. This MACO becomes effective on the date of the signature below of the Executive Director of the DEQ.

Date: October 30, 2009

LIMCO AIREPAIR, INC.
Dan Kraft, Chief Operating Officer

Date: 11.20.09

OKLAHOMA DEPARTMENT
OF ENVIRONMENTAL QUALITY
Steven A. Thompson, Executive Director

RECEIVED
FEB 09 2010
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

SITE CHARACTERIZATION WORK PLAN

LIMCO AIREPAIR
ODEQ-LPD CASE NO. 09-303
5304 SOUTH LAWTON AVENUE
(WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
TULSA, OKLAHOMA

SUBMITTED TO:
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY - LAND PROTECTION DIVISION
OKLAHOMA CITY, OKLAHOMA

DATE SUBMITTED: FEBRUARY 4, 2010

A & M PROJECT NO. 2059-003

PREPARED BY:

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128-4813
PHONE (918)-665-6575 & FAX (918)-665-6576

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.

10010 E. 16TH STREET
TULSA, OK 74128-4813

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION
(918) 665-6575 • FAX (918) 665-6576
EMAIL: aandm@aandmengineering.com

February 8, 2010

RECEIVED
FEB 09 2010
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Mr. Ray Roberts
Environmental Programs Specialist
Land Protection Division
Oklahoma Department of Environmental Quality
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

REF: SUBMITTAL OF THE SITE CHARACTERIZATION WORK PLAN
LIMCO AIREPAIR
ODEQ – LPD Case No. 09-303
5304 SOUTH LAWTON AVENUE
TULSA, TULSA COUNTY, OKLAHOMA
(A & M PROJECT NO. 2059-003)

Dear Mr. Roberts:

A & M Engineering and Environmental Services, Inc. (A & M Engineering) is pleased to submit two (2) hard copies of the Site Characterization Work Plan for the Limco Airepair facility based on the Memorandum of Agreement and Consent Order (MACO), dated November 20, 2009. The Work Plan has been prepared and submitted on behalf of Limco Airepair, Inc.

If you have any questions concerning this report, please do not hesitate to contact me at (918)-665-6575.

Respectfully,

Abigail Lazar
Project Manager

Enclosure

CC: Mr. Dan Kraft – Limco Airepair
Mr. Andrew Harrison – Sneed Lang Herrold PC

SITE CHARACTERIZATION WORK PLAN

RECEIVED
FEB 09 2010
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

LIMCO AIREPAIR
ODEQ-LPD CASE NO. 09-303
5304 SOUTH LAWTON AVENUE
(WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
TULSA, OKLAHOMA

SUBMITTED TO:
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY - LAND PROTECTION DIVISION
OKLAHOMA CITY, OKLAHOMA

DATE SUBMITTED: FEBRUARY 4, 2010

A & M PROJECT NO. 2059-003

PREPARED BY:

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128-4813
PHONE (918)-665-6575 & FAX (918)-665-6576

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3.	REMOVAL ACTION DESIGN REPORT PREPARATION	7
4.	REMOVAL ACTION PLAN PREPARATION	9
5.	PROJECT SCHEDULE	9

ATTACHMENTS

ATTACHMENT A FIGURES AND TABLES

ATTACHMENT B SAMPLING AND ANALYSIS PLAN

ATTACHMENT C QUALITY ASSURANCE PROJECT PLAN (QAPP)

ATTACHMENT D HEALTH AND SAFETY PLAN

ATTACHMENT E PROJECT SCHEDULE

SITE CHARACTERIZATION WORK PLAN

FOR

LIMCO AIREPAIR

ODEQ – LPD CASE NO. 09-303

5304 SOUTH LAWTON AVENUE

WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST

CITY OF TULSA, TULSA COUNTY, OKLAHOMA

1. INTRODUCTION

A & M Engineering and Environmental Services, Inc. (A & M Engineering) was contracted in June 2009 by Limco Airepair, Inc. to prepare a Work Plan for the Targeted Voluntary Cleanup Program - Limco Airepair Facility (the "Site"). The Site consists of approximately 4.7 acres of land with building facilities, located within the Northwest ¼ of the Northeast ¼ of Section 35, Township 19 North, Range 12 East in the City of Tulsa, Tulsa County, Oklahoma. The Site is situated in the northeast portion of the State of Oklahoma and within the west-central portion of Tulsa County. The Topographic Map (Figure 1), depicting the location and the Site Map (figure 2) depicting the general layout of the Site, are provided in Attachment A. The Site is zoned as Light Industrial (IL).

This Work Plan is being presented for review to the Oklahoma Department of Environmental Quality (ODEQ) in association with the consent order (Case No. 09-303). In preparing this Work Plan, Limco Airepair and A & M Engineering reviewed the information and data included in the previous studies and have conducted several site visits.

The objective of this Work Plan is to outline the tasks that Limco Airepair is proposing for development of a Site Characterization Report, Removal Action Design Report, and Removal Action Plan. All reports and plans will be in compliance with US Environmental Protection Agency (US EPA) and ODEQ guidelines and criteria.

BACKGROUND:

The Site consists of two industrial buildings, equipment/material storage yard, and parking lot occupied by Limco Airepair, a company that manufactures and assembles heat transfers, ducting, and air conditioning units. Limco Airepair owns the main building and leases the building located on the west portion of the site. Basic operations that are conducted on-site include: the manufacture and repair operations of heat exchangers and repair of aircraft air ducts. The facility operates 16 hours a day, 5.5 days a week and 22 days month, or 4,224 hours per year.

A Phase I ESA was originally conducted in December 2008 and February2009 for the Limco Site. According to historical resources and the site inspection, the Site consisted of vacant land until the main building structure was constructed in the mid to late 1970s with additions in the early 1980s. The leased building was also constructed in the mid to late 1970s. Limco Airepair has occupied the main building since the mid 1990s and leased the adjacent building since 2006. According to records, light industrial/manufacturing companies have occupied the Site from 1976 to 2008.

On February26, 2009, four (4) borings (TH-1 through TH-4) were drilled at the Site. All of the borings were drilled near the main building. TH-1 was located north of the main building and employee parking lot and was the upgradient boring. TH-2 was situated approximately 50 feet southeast of the Compressor Room. All of the borings were completed with one (1)-inch diameter screens for groundwater sampling. After letting both borings recharge for groundwater, water samples were collected from TH-1, TH-2, and TH-4. There was no groundwater in TH-3 so no groundwater sample was collected. An additional surface soil sample (S-Drum) was collected east of the flammable drum storage in a drainage ditch. The previous sample locations are shown on Figure 3 in Appendix A.

Groundwater concentration levels in TH-1 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc above the Primary Drinking Water Maximum Contaminant Levels (MCLs). Groundwater concentration levels in TH-2 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, and Trichloroethylene above MCLs. No groundwater sample was collected from TH-3 since there was no water in the boring. Groundwater concentration levels in TH-4 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, and Lead above MCLs.

The concentrations that are above the MCLs are highest in the upgradient sample (TH-1). The upgradient TH-1 sample did not have any detected organics, however, TH-2 and TH-4 have some elevated organic parameters. The organic parameters are low in concentration except for the Trichloroethylene in TH-2. Trichloroethylene in TH-2 is 0.202 mg/L and is above the MCL of 0.005 mg/L.

The groundwater is encountered at the base of the alluvial unit which has a low yield. The analytical data of groundwater samples from the three (3) borings show metals impact (Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead and Mercury) that exceed the Maximum Contaminant Levels for Primary Drinking Waters Standards. However, the metals impact is not related to the Site since the upgradient boring (TH-1) has the highest metals concentrations. TH-2 groundwater sample detected Trichloroethylene (TCE) at 0.202 mg/L concentration and TH-4 at 0.001 mg/L. TCE was not detected in TH-1 (upgradient) groundwater sample. Therefore, TCE contamination maybe related to the subject facility. The Trichloroethylene MCL is 0.005 mg/L and TH-2 groundwater exceeded this level.

Metals and a few organic parameters were detected in the soil samples, however the detected parameters were in relatively low concentrations. The S-Drum sample showed elevated concentrations levels compared to the other two soil samples for Copper, Selenium, and Zinc. The detected parameter concentration levels were compared to the

Risk-Based Screening Levels for Industrial Sites (DAF=1) and none of the detected parameters exceeded the Risk-Based Screening Levels.

The groundwater analytical table (Table 1) and the soil analytical table (Table 2) are provided in Attachment A.

2. SITE CHARACTERIZATION REPORT PREPARATION

Based on past Site operations and utilization, previous studies, and Site observations, the following tasks are proposed for gathering the necessary information and field data required for the preparation of the Site Characterization Report. A complete Sampling and Analysis Plan for collecting the field data for the Site Characterization Report is provided in Attachment B of this work plan. The Quality Assurance Project Plan (QAPP) is provided in Attachment C and the Site Specific Health and Safety Plan is provided in Attachment D.

TASK 1: INSTALL MONITORING WELLS

Eight (8) monitoring wells will be completed to determine the groundwater flow direction. The proposed monitoring well locations (Figure 4) are provided in Attachment A.

TASK 2: EVALUATE SUBSURFACE SOIL

The subsurface material from the split barrel will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID reading (over 10) will be sampled and analyzed for volatile organics (Method 8260). The zones with high PID readings (over 10) will be sampled (grab). If the PID readings are below 10, no samples will be collected in that boring.

TASK 3: COLLECT GROUNDWATER SAMPLES

Groundwater samples will be collected from each of the eight (8) monitoring wells and sampled for pH, Conductivity, Priority Metals, Chloride, Dissolved Oxygen, Total Dissolved Solids (TDS), and volatiles (Method 8260). If the detected metals are above Maximum Concentration Levels (MCLs), the water samples will be filtered and reanalyzed to determine if the sediments impacted the water.

TASK 4: INVESTIGATE NEARBY FACILITIES

Since the upgradient water samples indicated elevated concentrations for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc, the nearby industrial facilities will be evaluated and investigated for reported violations and permits. In addition, potential sources of off-site source contamination will be investigated.

TASK 5: PLUG MONITORING WELLS

Once the on-site environmental contamination issues are resolved, the eight (8) monitoring wells will be plugged in accordance with the Oklahoma Water Resources Board (OWRB).

TASK 6: PREPARATION OF SITE CHARACTERIZATION REPORT

Prepare and finalize the Site Characterization Report.

The Site Characterization Report at a minimum will include the following components:

1. Review of available information and document findings, including the current and previous usage of the Site.

2. A physical characteristic description of the Site, including geology, soil, hydrogeology, surface hydrology, land use, meteorology, at a minimum.

3. Detailed description of the involved contaminants, sources, release characteristics, and contaminated media.

4. Procedures used to determine the nature and extent of the contaminants, present the sampling results and collected field data, and evaluate the transport pathways.

5. Using the collected field data, determine the areas where the contamination exists above "screening levels" set by the US EPA and determine the site specific risk-based clean-up levels using ODEQ approved methodology.

6. Document the possibility of contamination movement in pathways that would result in exposure to humans and to surrounding environments at levels that exceed EPA screening levels or Maximum Contaminant Levels (MCLs).

7. Identify remedial options and additional field data collection needs, if any, to further study the identified remedial options.

8. Develop a sampling plan to collect additional data, if needed, for preparing the Removal Action Design Report and conduct the additional sampling following ODEQ approval.

3. REMOVAL ACTION DESIGN REPORT PREPARATION

The Removal Action Design Report shall evaluate at least two (2) possible removal actions alternatives from the collected data. The removal action alternatives and "no action" alternative shall address threats to human health and the environment. The evaluation shall include:

1. Summary of the completed Site Characterization work.

2. Description of contaminants of concern, including a discussion and summary of collected data (with appropriate QA/QC and data validation information);

3. An evaluation of possible exposure pathways, including areal extent of contaminants of concern.

4. Removal action goals and appropriate action levels;

5. A description of at least two (2) potential action alternatives and a "no action" alternative for the site, including an evaluation of the effectiveness of the removal action alternatives in terms of long term remedial objectives and reduction of risk to human health and the environment;

6. A comparison and justification of the costs of each removal action.

7. A consideration of appropriate regulations, standards, etc., pertinent to each removal action alternative evaluated.

8. A preferred alternative of an appropriate removal action giving adequate supporting rationale for its selection based on the above defined criteria. Necessary plans, diagrams, etc., to implement the proposed removal action should be included; The final selection of an appropriate removal action will be done by the ODEQ and the public; and

9. Establishment of adequate post-removal confirmation sampling to determine removal action performance.

4. REMOVAL ACTION PLAN PREPARATION

After the ODEQ approval of the Removal Action Design, a Removal Action Plan containing additional designs, technical specifications, etc. of the preferred removal alternative will be submitted to the ODEQ for review and approval prior to starting any construction activity.

5. PROJECT SCHEDULE

The Project Schedule is prepared to cover only the tasks for the Site Characterization and Reporting. If remedial tasks are needed, a new schedule will be prepared for those tasks.

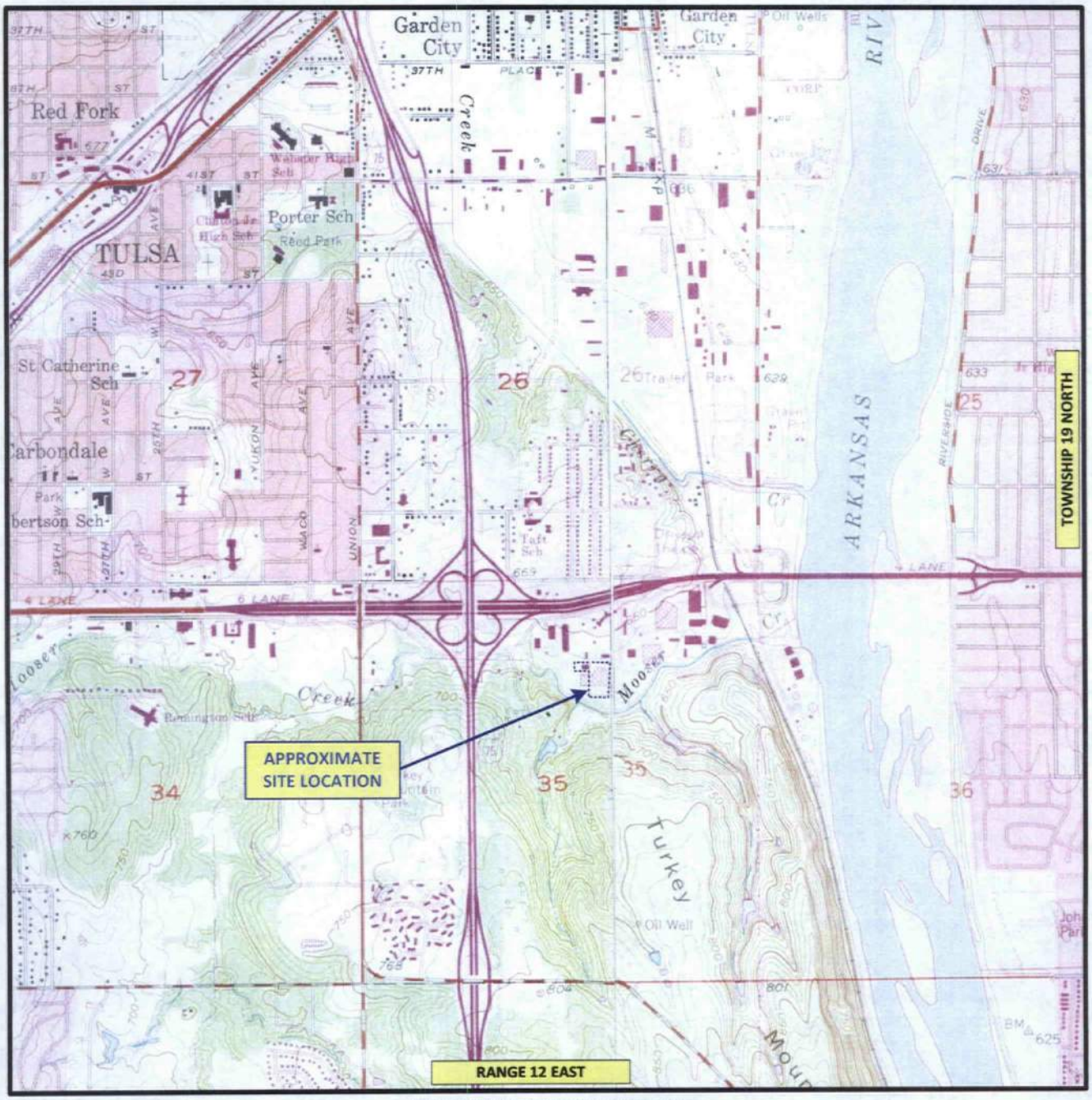
The following summarizes the Project Schedule for Initial Tasks:

1. Prepare and Submit Work Plan
2. Obtain ODEQ Approval for the Work Plan
3. Prepare and Coordinate the implementation of the Sampling & Analysis Plan (SAP)
4. Inform ODEQ at least two (2) weeks prior to initiation of Field Work
5. Implement SAP requirements in the Field
6. Obtain Analytical Results
7. Prepare Site Characterization Report and Submit to ODEQ
8. Obtain ODEQ comments
9. Decide on Additional Data Collection
10. Implement Additional Data Collection (if necessary)
11. Prepare Addendum to Site Characterization Report and Submit to ODEQ

The Project Schedule is provided in Attachment E.

ATTACHMENT A

FIGURES AND TABLES



7.5-MINUTE TOPOGRAPHIC MAP
SAPULPA NORTH AND JENKS QUADRANGLES – TULSA COUNTY, OKLAHOMA
LATITUDE: 36° 5' 14.2" LONGITUDE: 96° 0' 7.7"

N

SCALE
0 0.25 0.50 0.75 1 mile

****CONTOUR INTERVALS ARE AT 10' INTERVALS***

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

TOPOGRAPHIC MAP

LIMCO AIREPAIR
5304 SOUTH LAWTON AVENUE - TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 1
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

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LEGEND

SITE BOUNDARY

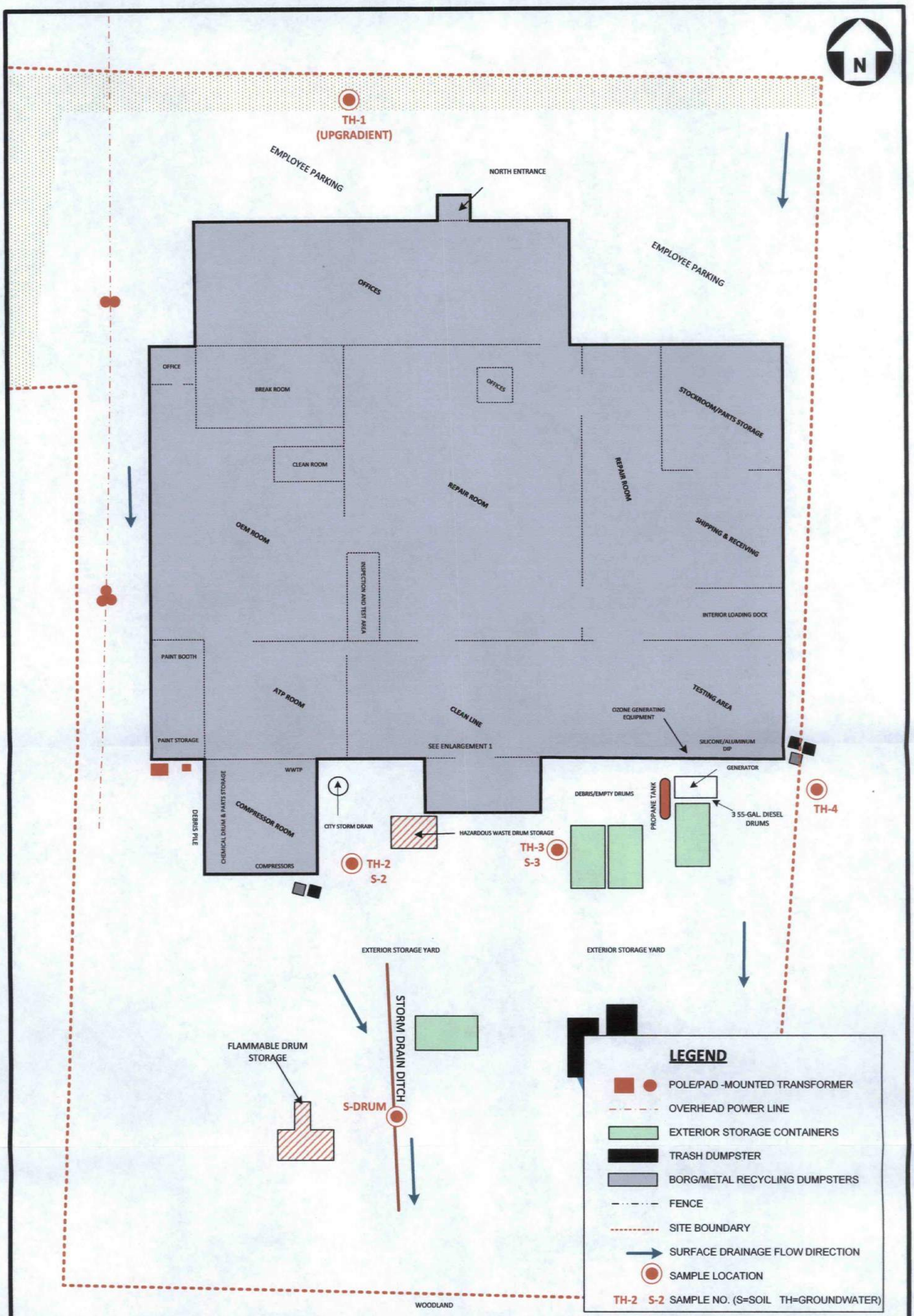
SURFACE DRAINAGE FLOW DIRECTION

SITE LAYOUT

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 2
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003



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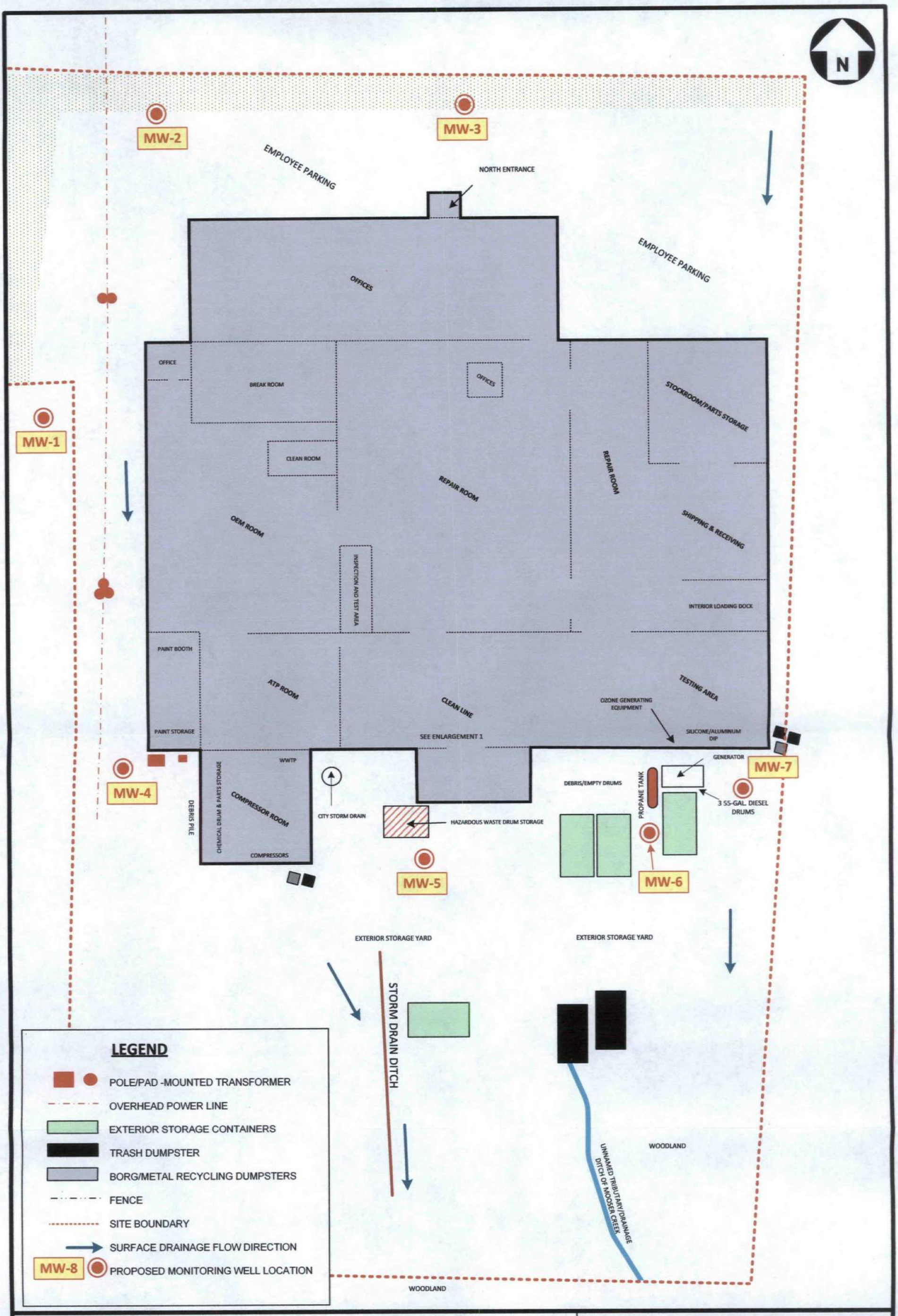
PREVIOUS SAMPLE LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 3
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003



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PROPOSED MONITORING WELL LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 4
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

Table 1 - Groundwater Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	TH-1	TH-2	TH-4	MCL	Unit
Primary Metals					
Antimony	<0.5	<0.25	<0.05	0.006	mg/L
Arsenic	**0.824**	**0.55**	**0.25**	0.01	mg/L
Barium	**16.8**	**9.59**	**2.58**	2	mg/L
Beryllium	**0.074**	**0.0485**	**0.0135**	0.004	mg/L
Cadmium	**0.55**	**0.033**	**0.0052**	0.005	mg/L
Chromium	**1.98**	**1.2**	**0.446**	0.1	mg/L
Copper	0.888	0.756	0.279	1.3	mg/L
Lead	**1.87**	**1.01**	**0.322**	0.05	mg/L
Selenium	<0.5	<0.25	<0.12	0.05	mg/L
Thallium	<0.17	<0.12	<0.0500	0.002	mg/L
Mercury	**0.00228**	0.00115	0.00049	0.002	mg/L
Secondary Metals					
Nickel	1.98	1.5	0.48		mg/L
Potassium	107	76	35.9		mg/L
Silver	<0.1	0.0066	<0.01	0.1	mg/L
Sodium	26.2	37.7	32.6		mg/L
Zinc	**5.37**	3.49	1.37	5	mg/L
Chloride	46	59	39	250	mg/L
Organics					
Tricholoroethylene	ND	**0.202**	0.001	0.005	mg/L
Acetone	ND	ND	0.0052	22	mg/L
2-Butanone	ND	0.0084	ND	7.1	mg/L
cis- 1,2-Dichloroethene	ND	0.0017	ND	0.07	mg/L
Toluene	ND	0.001	ND	1	mg/L
Miscellaneous					
Fluoride	0.26	0.35	0.23	4	mg/L
Nitrate	3.04	2.48	2.15	10	mg/L
Nitrite	0.15	0.05	0.06	1	mg/L
Conductivity	452	872	605		µmhos/cm
pH	6.77	7.12	7.24	6.5-8.5	S.U.

BOLD indicates concentrations above the MCL (Maximum Contaminant Level) per the EPA National Drinking Water Standards

Table 2 - Soil Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	S-2	S-3	S-Drum	Risk Based Screening Levels for DA F =1 (Industrial)	Unit
Primary Metals					
Antimony	<4.81	<4.81	<5.0	4,100	mg/Kg
Arsenic	10	5.54	6.63	1.6	mg/Kg
Barium	62.7	81.5	94.1	190,000	mg/Kg
Beryllium	0.35	0.48	0.49	2,000	mg/Kg
Cadmium	0.21	0.31	1.28	810	mg/Kg
Chromium (Total)	16.4	14.1	28	1,400	mg/Kg
Copper	8.89	10.3	124	41,000	mg/Kg
Lead	16.1	13.6	19	800	mg/Kg
Selenium	4.56	<4.0	28.1	5,100	mg/Kg
Thallium	<5.0	<5.0	<4.9	66	mg/Kg
Mercury	0.049	0.071	0.298	28	mg/Kg
Secondary Metals					
Nickel	38.8	13.3	34.2	20,000	mg/Kg
Potassium	1370	1720	1370		mg/Kg
Silver	0.64	<0.55	0.71	5,100	mg/Kg
Sodium	230	138	77		mg/Kg
Zinc	43.1	38	294	310,000	mg/Kg
Chloride	17	115	28		mg/Kg
Organics					
Tricholoroethylene	ND	ND	ND	14	mg/Kg
Naphthalene	ND	0.0031	0.0042		mg/Kg
Chloroform	ND	ND	0.0016	1.5	mg/Kg
Toluene	ND	ND	0.0025	46,000	mg/Kg
Miscellaneous					
Fluoride	3.87	3.15	5.07	61,000	mg/Kg
Nitrate	38.5	21.9	0.5	160,000	mg/Kg
Conductivity	800	654	364		µmhos/cm
pH	8	8.14	8.06		S.U.

ATTACHMENT B

SAMPLING AND ANALYSIS PLAN

SAMPLING AND ANALYSIS PLAN

LIMCO AIREPAIR
ODEQ-LPD CASE NO. 09-303
5304 SOUTH LAWTON AVENUE
(WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
TULSA, OKLAHOMA

SUBMITTED TO:
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
OKLAHOMA CITY, OKLAHOMA

DATE SUBMITTED: FEBRUARY 4, 2010

A & M PROJECT NO. 2059-003

PREPARED BY:

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128-4813
PHONE (918)-665-6575 & FAX (918)-665-6576

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Form 7: Daily Field Log

SAMPLING AND ANALYSIS PLAN

FOR

SITE CHARACTERIZATION WORK PLAN

LIMCO AIREPAIR
ODEQ – LPD CASE NO. 09-303
WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST
CITY OF TULSA, TULSA COUNTY, OKLAHOMA

1.0 INTRODUCTION

A & M Engineering and Environmental Services, Inc. (A & M Engineering) is contracted by Limco Airepair, Inc. to conduct Site Characterization at the Limco Airepair ("Site") located in Tulsa, Oklahoma.

The Site consists of approximately 4.7 acres of land with building facilities, located within the Northwest ¼ of the Northeast ¼ of Section 35, Township 19 North, Range 12 East in the City of Tulsa, Tulsa County, Oklahoma. The Site is situated in the northeast portion of the State of Oklahoma and within the west-central portion of Tulsa County. The Topographic Map (Figure 1), depicting the location and the Site Map (Figure 2) depicting the general layout of the Site, are provided in Attachment A. The Site is zoned as Light Industrial (IL).

This Sampling and Analysis Plan is prepared to address and determine any impact to soil and groundwater from either migration of contaminants onto the Site due to historical off-site use or previous on-site activities. The collected data from the site investigation will be presented in a site characterization report.

1.1 SITE LOCATION

The Site is situated between Highway 75 and the Arkansas River and south of Interstate 44, within the Carbondale area of Tulsa, Oklahoma. The Site is situated within the Northwest ¼

of the Northeast ¼ of Section 35, Township 19 North, Range 12 East in the City of Tulsa, Tulsa County, Oklahoma.

The Site consists of 4.7 acres of land with two industrial buildings. Light industrial properties (the Pepsi Plant, associated parking lots and administrative offices, and Fentress Oil Company) surround the Site to the north, east, and west. Mooser Creek and undeveloped woodland are situated south of the Site. A Site Layout Map (Figure 2) is provided in Appendix A.

1.2 BACKGROUND

The Site consists of two industrial buildings, equipment/material storage yard, and parking lot occupied by Limco Airepair, a company that manufactures and assembles heat transfers, ducting, and air conditioning units. Limco Airepair owns the main building and leases the building located on the west portion of the site. Basic operations that are conducted on-site include: the manufacture and repair operations of heat exchangers and repair of aircraft air ducts. The facility operates 16 hours a day, 5.5 days a week and 22 days month, or 4,224 hours per year.

A Phase I ESA was originally conducted in December 2008 and January 2009 for the Limco Site. According to historical resources and the site inspection, the Site consisted of vacant land until the main building structure was constructed in the mid to late 1970s with additions in the early 1980s. The leased building was also constructed in the mid to late 1970s. Limco Airepair has occupied the main building since the mid 1990s and leased the adjacent building since 2006. According to records, light industrial/manufacturing companies have occupied the Site from 1976 to 2008.

1.3 PREVIOUS STUDIES AND INVESTIGATIONS

A Phase I Environmental Site Assessment (ESA) was conducted at the Limco Airepair Facility in December 2008 and January 2009 by A & M Engineering and Environmental Services, Inc. (A&M Engineering). In order to further evaluate the condition of the subsurface near the floor grates and pits near the Clean Line area and WWTS, further assessment of the soil and groundwater was recommended.

On January 26, 2009, four (4) borings (TH-1 through TH-4) were drilled at the Site. All of the borings were drilled near the main building. TH-1 was located north of the main building and employee parking lot and was the upgradient boring. TH-2 was situated approximately 50 feet southeast of the Compressor Room. All of the borings were completed with one (1)-inch diameter screens for groundwater sampling. After letting both borings recharge for groundwater, water samples were collected from TH-1, TH-2, and TH-4. There was no groundwater in TH-3 so no groundwater sample was collected. An additional surface soil sample (S-Drum) was collected east of the flammable drum storage in a drainage ditch. The previous sample locations are shown on Figure 3 in Appendix A.

Groundwater concentration levels in TH-1 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc above the Primary Drinking Water Maximum Contaminant Levels (MCLs). Groundwater concentration levels in TH-2 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, and Trichloroethylene above MCLs. No groundwater sample was collected from TH-3 since there was no water in the boring. Groundwater concentration levels in TH-4 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, and Lead above MCLs.

The concentrations that are above the MCLs are highest in the upgradient sample (TH-1). The upgradient TH-1 sample did not have any detected organics, however, TH-2 and TH-4 have some elevated organic parameters. The organic parameters are low in concentration except for the Trichloroethylene in TH-2. Trichloroethylene in TH-2 is 0.202 mg/L and is above the MCL of 0.005 mg/L.

The groundwater is encountered at the base of the alluvial unit which has a low yield. The analytical data of groundwater samples from the three (3) borings show metals impact (Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead and Mercury) that exceed the Maximum Contaminant Levels for Primary Drinking Waters Standards. However, the metals impact is not related to the Site since the upgradient boring (TH-1) has the highest metals concentrations. TH-2 groundwater sample detected Trichloroethylene (TCE) at 0.202 mg/L concentration and TH-4 at 0.001 mg/L. TCE was not detected in TH-1 (upgradient) groundwater sample. Therefore, TCE contamination maybe related to the subject facility. The Trichloroethylene MCL is 0.005 mg/L and TH-2 groundwater exceeded this level.

Metals and a few organic parameters were detected in the soil samples, however the detected parameters were in relatively low concentrations. The S-Drum sample showed elevated concentrations levels compared to the other two soil samples for Copper, Selenium, and Zinc. The detected parameter concentration levels were compared to the Risk-Based Screening Levels for Industrial Sites (DAF=1) and none of the detected parameters exceeded the Risk-Based Screening Levels.

The Groundwater Analysis Summary (Table 1) and the Soil Analysis Summary (Table 2) are provided in Appendix B. The Previous Sample Locations Map (Figure 3) is provided in Appendix A.

The analytical data shows impact to the groundwater at the site from either previous on-site activities or the historical adjacent properties, located north of the site.

1.4 SCOPE OF WORK

Based on historical Site operations and utilization, historical adjacent property land uses (e.g. light industrial activities), previous studies, and site observations, the following tasks are proposed for gathering the necessary information and field data required for the preparation of the Site Characterization Report.

TASK 1: INSTALL MONITORING WELLS

Eight (8) monitoring wells will be completed to determine the groundwater flow direction. The proposed monitoring well locations (Figure 4) are provided in Attachment A.

TASK 2: EVALUATE SUBSURFACE SOIL

The subsurface material from the split barrel will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID reading (over 10) will be sampled and analyzed for volatile organics (Method 8260). The zones with high PID readings (over 10) will be sampled (grab). If the PID readings are below 10, no samples will be collected in that boring.

TASK 3: COLLECT GROUNDWATER SAMPLES

Groundwater samples will be collected from each of the eight (8) monitoring wells and sampled for pH, Conductivity, Priority Metals, Chloride, Dissolved Oxygen, Total Dissolved Solids (TDS), and volatiles (Method 8260). If the detected metals are above Maximum Concentration Levels (MCLs), the water

samples will be filtered and reanalyzed to determine if the sediments impacted the water.

TASK 4: INVESTIGATE NEARBY FACILITIES

Since the upgradient water samples indicated elevated concentrations for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc, the nearby industrial facilities will be evaluated and investigated for reported violations and permits. In addition, potential sources of off-site source contamination will be investigated.

TASK 5: PLUG MONITORING WELLS

Once the on-site environmental contamination issues are resolved, the eight (8) monitoring wells will be plugged in accordance with the Oklahoma Water Resources Board (OWRB).

TASK 6: PREPARATION OF SITE CHARACTERIZATION REPORT

Prepare and finalize the Site Characterization Report.

In order to successfully accomplish the objectives set forth, the following specific sampling will be completed to address the identified potential environmental concerns:

1.4.1. SUBSURFACE SOIL INVESTIGATION:

The subsurface material from the split barrel will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID reading (over 10) will be sampled and analyzed for volatile organics (Method 8260). The zones with high PID readings (over 10) will be sampled (grab). If the PID readings are below 10, no samples will be collected in that boring.

A ratio of ten (10) percent duplicates will be used for soils samples.

1.4.2. GROUNDWATER INVESTIGATION:

Eight (8) monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) will be drilled and completed to determine the impact to the groundwater underlying the Site. Groundwater samples will be analyzed for pH, Conductivity, Priority Metals, Chloride, Dissolved Oxygen, Total Dissolved Solids (TDS), and volatiles (Method 8260). If the detected metals are above Maximum Concentration Levels (MCLs), the water samples will be filtered and reanalyzed to determine if the sediments impacted the water.

The monitoring well locations are shown in Figure 4, provided in Appendix A. These monitoring wells will be drilled to the uppermost aquifer, sampled with a split barrel, and visually inspected to a total depth of 30 feet. The subsurface material from the split barrel will be described by a field geologist. In addition, all soils samples will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID (over 10) reading will be sampled and analyzed for volatile organics (Method 8260).

The eight (8) borings on the Site will be completed as monitoring wells and utilized for groundwater sampling. The data from these monitoring wells will be utilized to define the uppermost aquifer characteristics.

2.0 DRILLING AND TESTHOLE COMPLETION

2.1 DRILLING PROCEDURE FOR MONITORING WELLS

Testholes will be drilled using a standard type drill rig with hollow stem augers. The drilling auger will be used for boring the Testholes and accessing the subsurface materials for sampling. Each Testhole will be drilled to a maximum depth of thirty (30) feet. At the conclusion of drilling and following any sample collection activities at a Testhole location, the cuttings will be placed inside 55-gallon drums. The driller used for this project will be an Oklahoma certified monitoring well driller. Boring logs will be recorded for each Testhole at the time of drilling by an adequately qualified and experienced environmental professional. All samples from the borings will be scanned using a Photo Ionization Detector (PID). At a minimum, boring logs will include the following:

- Project Name and number
- Testhole name/number
- Date and time of start and finish
- Weather conditions
- Environmental Professional's name
- Driller's name
- Testhole location
- Rig type bit size/auger size
- Depth of Testhole
- Sample ID number (if collected)
- Narrative description of encountered materials including:
  - ❖ Soil/rock type
  - ❖ Color and stain
  - ❖ Moisture content
  - ❖ Odor
  - ❖ Suspect contaminant
- Drilling observations including:
  - ❖ Hole stability/caving
  - ❖ Advance rates

- ❖ Drilling difficulties
- Equipment failures or other deviations from the drilling plan

An example of a Soil Boring Log Form (Form 1) is provided in Appendix C.

Upon completion each Testhole will be completed as a monitoring well. Also, in accordance with the OWRB regulations a Construction & Plugging Report Form will be completed and submitted for each Testhole. A copy of the OWRB Construction & Plugging Report for Testholes (Form 2) is provided in Appendix C.

2.2 BORING DESCRIPTION

Borings will be completed in the general areas of concern based upon visual site characteristics and accessibility. All physical characteristics of samples will be described and recorded in the field log book with the PID readings as well.

3.0 INSPECTION, SAMPLING, AND TESTING PROTOCOLS

All the proposed monitoring wells for this project will be drilled to the uppermost aquifer or to a depth of 30 feet.

3.1 SAMPLING EQUIPMENT

Equipment that may be used to collect soil samples from the Testholes includes the following:

- Drill rig
- Stainless steel spoon
- Steel hand shovel
- Plastic zip-lock bags
- Pre-cleaned wide-mouth containers with Teflon lined lids
- Alconox soap and distilled water for equipment decontamination
- Photo Ionization Detector (PID)

Uppermost groundwater samples obtained from the monitoring wells will be collected using individually wrapped, disposable bailers.

3.2 PROTOCOL FOR SOILS SAMPLING

A total of eight (8) monitoring wells will be drilled using a standard drill rig with hollow stem augers. Representative samples will be obtained by the split-barrel sampling procedure. Soil samples will be sniffed using a Photo Ionization Detector (PID). The monitoring wells will be drilled to a maximum depth of 30 feet. The monitoring wells will be completed in the general areas of concern based upon visual site characteristics and accessibility and they are shown on Figure 4 in Appendix A.

- The sampling technician(s) will don clean PPE as specified (gloves). The sampling equipment (split barrels) will be thoroughly cleaned with Alconox/distilled water mixture and rinsed with distilled water prior to the first sample collection. The drill rig operators will don leather gloves and the drill auger will be thoroughly cleaned and rinsed with steam cleaner between each Testhole location. All decontamination and rinsate water will be collected, drummed, sampled and properly disposed. Each five (5) foot split barrel will be inspected by a geologist and screened with the PID. The zones with high PID readings (over 10) will be sampled (grab). The samples will be put into laboratory prepared sample containers. The soil samples will be analyzed for volatile organics (Method 8260).

- After the Testhole has been properly evaluated, team members will clean the equipment with Alconox and distilled water. Drill augers will be thoroughly cleaned and rinsed with a steam cleaner. Team members will don clean latex gloves prior to obtaining the next sample.

- The above sampling sequence will be followed for each of the remaining Testhole locations.

Decontamination of sampling equipment will be conducted at the conclusion of the sampling event as described in a subsequent section of this document.

3.3 PROTOCOL FOR UPPERMOST GROUNDWATER SAMPLING

Uppermost groundwater samples will be collected from eight (8) monitoring wells using the following protocol:

- Prior to sampling, each monitoring well will be purged at least three well-volumes and the boring will be allowed to recover to approximately eighty percent of its initial volume (if possible in the allotted time).

- The sampling technician(s) will don clean PPE as specified. Water samples will be collected with individually wrapped, disposable bailers, eliminating the need for initial decontamination of the sampling device. Sample labels will be completed with an indelible marker and affixed to the sample containers prior to the collection of water samples.

- The bailer will be slowly lowered into the water until water resistance is "felt". The bailer will continue to be lowered further until approximately ¾ of bailer length is submerged.

- The bailer will be gently raised out of the water and the subjective appearance of the sample (i.e. floating debris, free product (LNAPL, DNAPL), sheen, color, clarity, etc.) will be noted in the sampling log.

- A water sample will be slowly decanted into the appropriately labeled sample vial, provided by the lab, via the fluid extractor located at the bottom of the bailer. If sediments prevent flow through the extractor, the liquid will be carefully poured into sample vial from the top of bailer with minimal agitation.

- The sample container, which is provided by the lab and supplied with the appropriate preservative, will then be inspected to assure that the container is filled to the point where the meniscus is formed above the lip of the sample container. A Teflon-lined cap will be quickly placed onto the sample container

and tightened securely. The sample container will be checked to ensure no air bubbles are present. A custody seal will be placed over the lid of the sample container. The sample jars for organic testing will be collected first, then the metals, and then inorganics.

- Sealed samples will be placed in a suitable holder to prevent breakage and put in an ice chest packed with sufficient ice to ensure sample temperature is maintained below four (4) degrees Centigrade for transport to analytical laboratory.

The samples will be collected and analyzed using the appropriate EPA SW846 methods listed below.

- ❖ EPA Method 8260 (Volatile Organics)
- ❖ EPA Method 6010 (Priority Metals)
- ❖ Standard Methods 4500-Cl C (Chloride)
- ❖ Standard Methods 4500-O G (Dissolved Oxygen)
- ❖ Standard Methods 2540 C (Total Dissolved Solids – TDS)
- ❖ EPA Method SW 9040 B (pH)
- ❖ EPA Method SW 9050 A (Conductivity)

3.3.1. Quality Control Measures for Uppermost Groundwater Sampling

Trip Blank

Trip Blanks to be used are QC samples which originate from analyte-free water taken from the laboratory to the sampling site and returned to the laboratory with the volatile organic (VOA) samples. One trip blank will accompany each cooler to be shipped to the laboratory containing VOAs. Trip blanks are only analyzed for VOAs.

FIELD DUPLICATES

The field duplicates for water samples should be collected simultaneously. Field duplicates will be collected at a frequency of 10% per sample matrix. All the duplicates will be sent to the primary laboratory responsible for analysis. The same samples used for field duplicates shall be split by the laboratory and be used as the laboratory duplicate or matrix spike and a matrix spike duplicated (MS/MSD). This means that for the duplicate sample, there will be analyses of the normal sample, the field duplicate and the laboratory MS/MSD. A separate MS/MSD will not be collected in the field, but will be obtained from the field duplicate by splitting the sample in the laboratory.

3.4 DECONTAMINATION PROCEDURES

Equipment that may come in contact with potentially contaminated soil, sediment, or water will be decontaminated prior to and after use. Decontamination consists of steam cleaning (high pressure, hot water washing), phosphate-free detergent wash (Alconox), and distilled, deionized (DI), or clean water rinse, as appropriate.

Sampling and drilling equipment will be decontaminated utilizing EPA guidelines. Summary decontamination steps are as follows:

3.4.1. WATER SAMPLING EQUIPMENT

Prior to collecting a water sample, non-dedicated sampling equipment must be decontaminated according to the following procedure.

- EQUIPMENT: Remove all visible contamination with distilled water and an Alconox™ solution. If this is not effective, use a clean soft cloth or sponge or use pressurized water to clean equipment. If required, a brush may be used to clean stainless steel or metal equipment but not plastic equipment, which may be

scratched by the brush. After cleaning equipment, triple rinse equipment with distilled water.

- HOSES: Clean outside of hoses with high pressure hot water. Pump three (3) volumes of distilled water through hoses. If possible, use pressurized distilled water.

- PROBE TIPS AND METERS: Triple rinse with distilled water.

- Collect sample according to the specific procedure for the sample type.

- Rinse all sample collection equipment with clean tap water followed by distilled water. Store equipment in clean containers.

3.4.2. DRILLING EQUIPMENT

Steam clean downhole equipment on drill rigs such as augers, drill rods and drill bits prior to and/or after use adjacent to each Testhole. Remove visible soil and grease.

Wash steel tapes, well sounders, transducers and water quality probes in a phosphate-free detergent solution and rinse in distilled or DI water or wipe clean after each use. Clean the portion of these devices inserted into Testholes with a mild soap solution.

3.5 SAMPLE PACKAGING AND TRANSPORT

Each sample will be packaged and transported appropriately as described in the following protocol:

- Collect samples in appropriate containers already supplied with the required preservatives by the lab.

- Print the following information clearly in waterproof ink on the label for each sample container: the preservative that has been added to each sample container, the sample number, the project number, the initials of the sample collector, and the date and time the sample was collected. For water samples, package sets together if appropriate. Each VOC set should be placed together in a labeled Ziploc plastic bag.

- Fill out field sample log and chain-of-custody record.

- Separate and place samples in coolers according to laboratory destination and according to expected concentrations (e.g., lowest concentration samples together). Each cooler must weigh less than 70 pounds including ice. Package samples well to protect from shipping damage.

- Place samples on ice to maintain the temperature below 4 degrees Centigrade, as necessary.

- Seal the top two copies of each chain-of-custody form inside a Ziploc bag. Use strapping tape to attach the packet to the inside of the cooler lid. Samples will always be accompanied by a chain-of-custody record. When transferring samples, both the individuals relinquishing and receiving the samples will sign and date the chain-of-custody record. Samples will be packaged properly for shipment, including isolation of samples thought to have high chemical concentrations and dispatched to the appropriate laboratory for analysis.

- Secure cooler with custody seal.

- Label coolers correctly, placing "Fragile" and "This-End-Up" labels on coolers, as appropriate.

- Transport the coolers to the analytical laboratory via A & M Engineering Team personnel or designated couriers. The planned mode of sample transport is to use couriers employed by the laboratory. Alternatively, commercial couriers, A & M Engineering Team couriers, or overnight shipment may be used. Specific transportation arrangements are dependent on the location, timing, viable resources, and personnel.

3.6 SAMPLE CUSTODY

Sample custody procedures will be followed through sample collections, transfer, analysis and ultimate disposal. The purpose of these procedures is to assure that the integrity of samples is maintained during their collection, transportation and storage prior to analysis and sample material is properly disposed after analysis. Sample custody begins with the shipment of the empty sample containers. Sample containers are shipped from the laboratory in sealed coolers or cartons with appropriate seals and custody documentation. Sample quantities, types and locations will be determined before the actual field work commences. The Sample Technician will be responsible for the care and custody of the samples until properly transferred. Custody transfer will be documented on the Chain-of-Custody Form. An example of the Chain of Custody form is included as Form 3 in Appendix C.

At the chemical laboratory, a designated sample custodian will accept custody of the shipped samples and verify that the information on the sample label matches that on the

chain-of-custody form(s). Pertinent information as to sample condition, shipment, pickup, and courier will also be checked on the chain-of-custody form(s). In addition, a project receipt checklist (e.g. Cooler Receipt Form) will also be completed by the custodian. Information on the date and time of receipt, method of shipment, and sample condition will be recorded on this form. The custodian will then enter the appropriate data into the laboratory sample tracking system. The laboratory custodian will use the sample number on the sample label as well as assign a unique laboratory number to each sample. The custodian will then transfer the sample(s) to the proper analyst(s) or store the sample(s) in the appropriate secure area.

Laboratory personnel will be responsible for the care and custody of samples from the time they are received and are responsible for sample disposal. Data sheets and laboratory records will be retained as part of the permanent documentation for a period of at least 3 years.

Samples and extracts are retained by the analytical laboratory for up to 30 days after the data are reported by the laboratory. Unless notified otherwise by the site managers, excess or unused samples are disposed by the laboratory in a manner consistent with appropriate government regulations.

3.7 SUBMISSION OF SAMPLES TO ACCREDITED LABORATORIES FOR TESTING

The ODEQ certified laboratory that will be used for analysis of collected environmental samples will be Green Country Testing of Tulsa, Oklahoma. Analytical methodologies and quantitation limits can be found in Green Country Testing's Quality Assurance Program Plan included in Appendix D.

4.0 DOCUMENTATION

4.1 SAMPLE DOCUMENTATION

Each sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following identification documents will be used during the investigation:

- Sample Labels
- Sample Custody Seals
- Field Sampling Logs
- Field Logs
- Chain-of-Custody Forms

4.1.1. SAMPLE LABELS

Sample labels are necessary to prevent misidentification of samples. Preprinted sample labels will be provided. An example of A & M Engineering's Sample label is included as Form 4 and a Custody seal as Form 5, both provided in Appendix C. Where necessary, the label will be protected from water and solvents with clear label-protection tape. Each label contains the following information:

- Project name
- Initials of collector
- Date and time of collection
- Place of collection (job site)
- Sample number
- Well/boring number
- Depth
- Type sample (composite/grab)
- Preservative, if any

4.1.2. FIELD SAMPLING LOGS

A Field Sampling Log will be used during each sampling event by the Sample Technician to record activities as they relate to the progress of the investigation. The field sampling logs will be retained in the investigation files according to project number for that task. An example of the Field Sampling Log (Form 6) is provided in Appendix C. Entries in the field sampling log will include at least the following information:

- Project name and number
- Site location
- Name of sampler and date
- Names of personnel onsite
- Sample locations
- Volumes of samples collected
- Sample identification numbers
- Field observations and comments

4.1.3. DAILY FIELD LOGS

A Field Log will be used daily by the Sample Technician to record activities as they relate to the progress of the investigation. An example of a Daily Field Log (Form 7) is provided in Appendix C. The field logs will be retained in the investigation files according to project number for that task. Entries in the field log will include at least the following information:

- Project name
- Project number
- Name of author and date
- Chronology and location of activities
- Names and affiliations of personnel onsite

- Instrument calibration details and identification number
- Decontamination procedures
- Sample collection or measurement methods
- Number of samples collected
- Sample identification numbers
- Sample distribution (laboratory)
- Field observations and comments
- Any modifications to or deviation from the site specific work plan

4.1.4. CHAIN-OF-CUSTODY RECORD

A chain-of-custody record will be filled out for and will accompany every sample to the analytical laboratory to establish the documentation necessary to track sample possession from the time of collection. A copy of the chain-of-custody form will be retained in the investigation files according to project number. The record will contain the following information:

- Sample number or identification
- Names of samplers
- Signature of collector, sampler or recorder
- Location of project
- Project manager's name
- Date of collection
- Place of collection (site location)
- Sample type
- Analyses requested
- Inclusive dates of possession
- Signature of person relinquishing or receiving sample
- Laboratory sample number, where applicable
- Date and time of sample receipt
- Method of shipment and courier name

4.1.5. CORRECTIONS TO SAMPLE DOCUMENTATION

Original data recorded in field investigation daily reports, chain-of-custody records, and other forms will be written in waterproof ink. None of these documents will be altered, destroyed or discarded, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made on a document compiled by one individual, that individual will make the necessary correction by crossing a single line through the error, entering the correct information and initialing and dating the change. The erroneous information will not be obliterated. Any subsequent error(s) discovered on a document will be corrected by the person discovering the error. All corrections will be initialed and dated. Site-specific documentation will be reviewed by site managers on a daily basis.

4.1.6. TRANSFER OF FIELD DOCUMENTATION

During site-specific field operations, field investigation daily logs will be faxed to Project Managers on a daily basis. In the absence of a facsimile, field geologists and/or engineers will be in contact with Project Managers, or, at a minimum, the Field Operations Manager via mobile telephones. During drilling associated with the installation of monitoring wells, site managers will review boring logs prior to constructing the well.

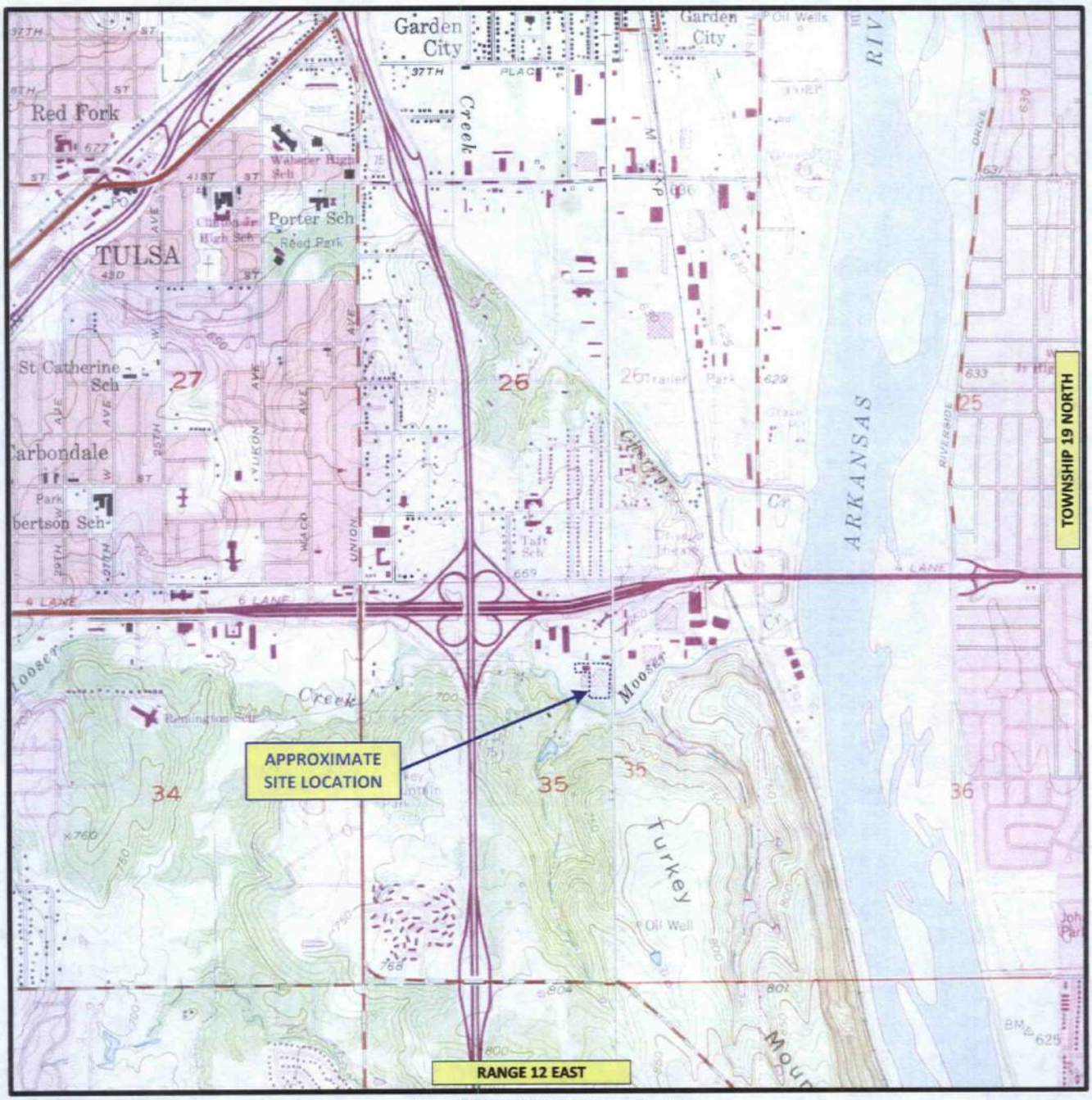
At the end of each week of field operations, all field documentation will be copied and hard copies sent to the Project Manager for review. A copy of this documentation will also be kept at the on-site field office for future reference, if necessary. The original field documents will be submitted to the Project Manager for preparation of the final report.

4.2 REPORT GENERATION

Following inspection and sampling activities, and upon receipt of laboratory analytical results, a report will be generated that summarizes the findings.

APPENDIX A

FIGURES



7.5-MINUTE TOPOGRAPHIC MAP
SAPULPA NORTH AND JENKS QUADRANGLES – TULSA COUNTY, OKLAHOMA
LATITUDE: 36° 5' 14.2" LONGITUDE: 96° 0' 7.7"

N

SCALE
0 0.25 0.50 0.75 1 mile

****CONTOUR INTERVALS ARE AT 10' INTERVALS***

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

TOPOGRAPHIC MAP

LIMCO AIREPAIR
5304 SOUTH LAWTON AVENUE - TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 1
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

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LEGEND

SITE BOUNDARY

SURFACE DRAINAGE FLOW DIRECTION

SITE LAYOUT

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 2
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

N

TH-1
(UPGRADIENT)

EMPLOYEE PARKING

NORTH ENTRANCE

EMPLOYEE PARKING

OFFICES

OFFICE

BREAK ROOM

OFFICES

STOCKROOM/PARTS STORAGE

CLEAN ROOM

REPAIR ROOM

REPAIR ROOM

OEM ROOM

SHIPPING & RECEIVING

INSPECTION AND TEST AREA

INTERIOR LOADING DOCK

PAINT BOOTH

ATP ROOM

CLEAN LINE

TESTING AREA

OZONE GENERATING EQUIPMENT

PAINT STORAGE

SEE ENLARGEMENT 1

SILICONE/ALUMINUM DIP

WWTP

GENERATOR

DEBRIS/EMPTY DRUMS

PROPANE TANK

3 55-GAL. DIESEL DRUMS

TH-4

DEBRIS PILE

CHEMICAL DRUM & PARTS STORAGE

COMPRESSOR ROOM

CITY STORM DRAIN

HAZARDOUS WASTE DRUM STORAGE

TH-3
S-3

TH-2
S-2

COMPRESSORS

EXTERIOR STORAGE YARD

EXTERIOR STORAGE YARD

STORM DRAIN DITCH

FLAMMABLE DRUM STORAGE

S-DRUM

WOODLAND

LEGEND

- POLE/PAD -MOUNTED TRANSFORMER
- OVERHEAD POWER LINE
- EXTERIOR STORAGE CONTAINERS
- TRASH DUMPSTER
- BORG/METAL RECYCLING DUMPSTERS
- FENCE
- SITE BOUNDARY
- SURFACE DRAINAGE FLOW DIRECTION
- SAMPLE LOCATION
- TH-2 S-2 SAMPLE NO. (S=SOIL TH=GROUNDWATER)

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PREVIOUS SAMPLE LOCATION MAP

LIMCO AIREPAIR PROPERTY
5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 3
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

N

MW-1

MW-2

MW-3

MW-4

MW-5

MW-6

MW-7

EMPLOYEE PARKING

NORTH ENTRANCE

EMPLOYEE PARKING

OFFICES

OFFICE

BREAK ROOM

OFFICES

STOCKROOM/PARTS STORAGE

CLEAN ROOM

REPAIR ROOM

REPAIR ROOM

OEM ROOM

SHIPPING & RECEIVING

INSPECTION AND TEST AREA

INTERIOR LOADING DOCK

PAINT BOOTH

ATP ROOM

CLEAN LINE

TESTING AREA

OZONE GENERATING EQUIPMENT

PAINT STORAGE

SEE ENLARGEMENT 1

SILICONE/ALUMINUM DIP

WWTP

CHEMICAL DRUM & PARTS STORAGE

COMPRESSOR ROOM

COMPRESSORS

DEBRIS PILE

CITY STORM DRAIN

HAZARDOUS WASTE DRUM STORAGE

DEBRIS/EMPTY DRUMS

PROPANE TANK

GENERATOR

3 55-GAL. DIESEL DRUMS

EXTERIOR STORAGE YARD

EXTERIOR STORAGE YARD

STORM DRAIN DITCH

WOODLAND

UNNAMED TRIBUTARY/DRAINAGE DITCH OF MOOSER CREEK

WOODLAND

LEGEND

- POLE/PAD -MOUNTED TRANSFORMER
- OVERHEAD POWER LINE
- EXTERIOR STORAGE CONTAINERS
- TRASH DUMPSTER
- BORG/METAL RECYCLING DUMPSTERS
- FENCE
- SITE BOUNDARY
- SURFACE DRAINAGE FLOW DIRECTION
- MW-8 PROPOSED MONITORING WELL LOCATION

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PROPOSED MONITORING WELL LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 4
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

APPENDIX B

TABLES

Table 1 - Groundwater Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	TH-1	TH-2	TH-4	MCL	Unit
Primary Metals					
Antimony	<0.5	<0.25	<0.05	0.006	mg/L
Arsenic	**0.824**	**0.55**	**0.25**	0.01	mg/L
Barium	**16.8**	**9.59**	**2.58**	2	mg/L
Beryllium	**0.074**	**0.0485**	**0.0135**	0.004	mg/L
Cadmium	**0.55**	**0.033**	**0.0052**	0.005	mg/L
Chromium	**1.98**	**1.2**	**0.446**	0.1	mg/L
Copper	0.888	0.756	0.279	1.3	mg/L
Lead	**1.87**	**1.01**	**0.322**	0.05	mg/L
Selenium	<0.5	<0.25	<0.12	0.05	mg/L
Thallium	<0.17	<0.12	<0.0500	0.002	mg/L
Mercury	**0.00228**	0.00115	0.00049	0.002	mg/L
Secondary Metals					
Nickel	1.98	1.5	0.48		mg/L
Potassium	107	76	35.9		mg/L
Silver	<0.1	0.0066	<0.01	0.1	mg/L
Sodium	26.2	37.7	32.6		mg/L
Zinc	**5.37**	3.49	1.37	5	mg/L
Chloride	46	59	39	250	mg/L
Organics					
Tricholoroethylene	ND	**0.202**	0.001	0.005	mg/L
Acetone	ND	ND	0.0052	22	mg/L
2-Butanone	ND	0.0084	ND	7.1	mg/L
cis- 1,2-Dichloroethene	ND	0.0017	ND	0.07	mg/L
Toluene	ND	0.001	ND	1	mg/L
Miscellaneous					
Fluoride	0.26	0.35	0.23	4	mg/L
Nitrate	3.04	2.48	2.15	10	mg/L
Nitrite	0.15	0.05	0.06	1	mg/L
Conductivity	452	872	605		µmhos/cm
pH	6.77	7.12	7.24	6.5-8.5	S.U.

BOLD indicates concentrations above the MCL (Maximum Contaminant Level) per the EPA National Drinking Water Standards

Table 2 - Soil Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	S-2	S-3	S-Drum	Risk Based Screening Levels for DA F =1 (Industrial)	Unit
Primary Metals					
Antimony	<4.81	<4.81	<5.0	4,100	mg/Kg
Arsenic	10	5.54	6.63	1.6	mg/Kg
Barium	62.7	81.5	94.1	190,000	mg/Kg
Beryllium	0.35	0.48	0.49	2,000	mg/Kg
Cadmium	0.21	0.31	1.28	810	mg/Kg
Chromium (Total)	16.4	14.1	28	1,400	mg/Kg
Copper	8.89	10.3	124	41,000	mg/Kg
Lead	16.1	13.6	19	800	mg/Kg
Selenium	4.56	<4.0	28.1	5,100	mg/Kg
Thallium	<5.0	<5.0	<4.9	66	mg/Kg
Mercury	0.049	0.071	0.298	28	mg/Kg
Secondary Metals					
Nickel	38.8	13.3	34.2	20,000	mg/Kg
Potassium	1370	1720	1370		mg/Kg
Silver	0.64	<0.55	0.71	5,100	mg/Kg
Sodium	230	138	77		mg/Kg
Zinc	43.1	38	294	310,000	mg/Kg
Chloride	17	115	28		mg/Kg
Organics					
Tricholoroethylene	ND	ND	ND	14	mg/Kg
Naphthalene	ND	0.0031	0.0042		mg/Kg
Chloroform	ND	ND	0.0016	1.5	mg/Kg
Toluene	ND	ND	0.0025	46,000	mg/Kg
Miscellaneous					
Fluoride	3.87	3.15	5.07	61,000	mg/Kg
Nitrate	38.5	21.9	0.5	160,000	mg/Kg
Conductivity	800	654	364		µmhos/cm
pH	8	8.14	8.06		S.U.

APPENDIX C

FORMS

Soil Boring Log

Boring No.	

Project Name:	LIMCO AIREPAIR
Site Location	TULSA, OK
Project No.	2059-004

Date:	
Geologist/Field Tech:	
Others Present	

ID:		Start Time:		Finish Time:		Total Depth:	

Interval	Description	Comments

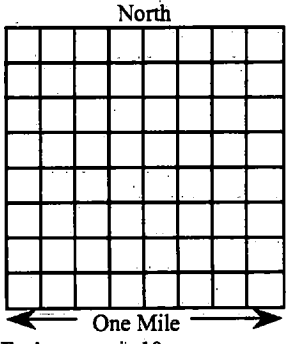
Soil Sample No.		
Soil Sample Depth:		
Soil Sample Time:		

Groundwater Sample No.	
Groundwater Sample Time	

CONSTRUCTION AND PLUGGING REPORT FOR
Groundwater Test Holes or Geotechnical Borings

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location of Water Well



Each square is 10-acres
Please Plot Well Location

Do Not Write In This Space
Well Record ID Number _____

Section _____
Township _____ ☐ North ☐ South **Range** _____ ☐ WIM ☐ EIM ☐ ECM

*** A measured latitude and longitude may be substituted for the Legal Description**
Latitude _____ Longitude _____

Date collected (latitude and longitude), if different from date the well was drilled: _____
Method latitude and longitude was collected: ☐ GPS-uncorrected data,
☐ GPS-corrected data (WASS), ☐ GPS-corrected data (DGPS), ☐ GPS-corrected to base station

County _____ Variance Request No. (if applicable) _____

* Number of borings represented on this log which are within the same 10 acre-tract and with the same general depths and lithologies? _____

WELL OWNER – NAME AND ADDRESS

Well Owner _____ Phone _____
Address/City/State _____ ZIP _____
Finding Location _____

TYPE OF WORK
☐ Geotechnical Boring ☐ Groundwater Test Hole

NEW BORING OR WELL CONSTRUCTION DATA
An application for a variance must be requested and obtained before any changes are made to the minimum construction standards for any well.

Date Well or Boring was Completed _____
Hole Diameter _____ inches Boring Drilled From _____ feet to _____ feet

HYDROLOGIC DATA
Depth to water at time of drilling _____ Estimated yield of well _____ gpm. First water zone _____ feet

PLUGGING INFORMATION
Date Well or Boring Was Plugged: _____ Total depth well was plugged (feet): _____

Was the well contaminated or was it plugged as though it was contaminated? ☐ Yes ☐ No

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? ☐ Yes ☐ No

Backfilled with: ☐ Native materials, ☐ Clean washed sand, ☐ Other Describe: _____
Backfilled from _____ feet to _____ feet

Grouted with: ☐ Cement grout, ☐ Cement grout/bentonite, ☐ H.S. bentonite grout, ☐ Bentonite pellets, ☐ Bentonite granules/chips
Grouted From _____ feet to _____ feet Was Grout Tremied? ☐ Yes ☐ No

Grouted with: ☐ Cement grout, ☐ Cement grout/bentonite, ☐ H.S. bentonite grout, ☐ Bentonite pellets, ☐ Bentonite granules/chips
Grouted From _____ feet to _____ feet

LITHOLOGY DESCRIPTION

Note: If no lithology descriptions were made then, in the "Material" data field please indicate "no lithologic description obtained"

MATERIAL (indicate with a check mark if a zone is saturated)	ENCOUNTERED FROM (Feet)	ENCOUNTERED TO (Feet)	MATERIAL (indicate with a check mark if a zone is saturated)	ENCOUNTERED FROM (Feet)	ENCOUNTERED TO (Feet)

CERTIFICATION

The work described above was done under my supervision. This report is correct to the best of my knowledge.

Firm Name _____ D/PC No. _____

Operator Name _____ OP No. _____

_____ Date _____

Signature

CHAIN OF CUSTODY RECORD

Page: _____ of _____

Customer Information		Project Information		Analysis/Methods
PO:		Project Name:	LIMCO AIREPAIR	
WO:		Project Number:	2059-004	
Company:	A&M ENGINEERING	Bill To:	A&M ENGINEERING	
Report to:	ABBY LAZAR	Invoice ATTN:	ABBY LAZAR	
Address:	10010 EAST 16TH STREET	Address:	10010 EAST 16TH STREET	
	TULSA, OK 74128		TULSA, OK 74128	
E-mail:	alazar@aandmengineering.com			
Phone:	918-665-6575	Phone:	918-665-6575	
Fax:	918-665-6576	Fax:	918-665-6576	

No.	Sample Description	Date	Time	Type	Matrix	# Containers	COMMENTS
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Sampler:	Shipment Method:	Date Due (fax):

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:

Comments:		Standard turn	Other
		Rush turn	Cooler Temp:

A & M Engineering and
Environmental Services, Inc.
PH: (918) 665-6575
Fax: (918) 665-6576

Client/Source **LIMCO AIREPAIR**	☐ Grab ☐ Composite
Site Name: **LIMCO AIREPAIR**	Date:
Sample No.	Time:
Analysis:	Coll. By:

Sampling & Analysis Form 4

Custody Seal

Date: _____

Signature: _____

Sampling & Analysis Form 5

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128 – 4813
ENGINEERING - ENVIRONMENTAL - CONSTRUCTION
(918) 665-6575 FAX (918) 665-6576
E-MAIL: AANDM@AANDMENGINEERING.COM

FIELD SAMPLING LOG

Project Name:	**LIMCO AIREPAIR**	**Sampling Date:**	
Site Location:	**Tulsa, OK**	**Sampler Name**	
Project Number:	**2059-004**	**Others:**	

Sample Number	Sample Location	Material Description (Include color, odor, etc.)	Sample Matrix	Total Volume Collected

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128 – 4813
ENGINEERING - ENVIRONMENTAL - CONSTRUCTION
(918) 665-6575 FAX (918) 665-6576
E-MAIL: AANDM@AANDMENGINEERING.COM

DAILY FIELD LOG

PROJECT NAME: LIMCO AIREPAIR PROJECT NUMBER: 2059-004
DATE: FIELD SUPERVISOR:

OTHERS PRESENT (ADD PAGES IF NECESSARY)	AFFILIATION

FIELD INSTRUMENT(S)	INSTRUMENT ID NUMBER	DATE LAST CALIBRATED

DECONTAMINATION PROCEDURES FOLLOWED	Y	N	DEVIATION(S) OR MODIFICATION(S)	Y	N
Field Instruments					
Sample Devices					
Personal Protective Equipment					

SAMPLE LOCATION	TIME	SAMPLE METHOD	NO. SAMPLES	SAMPLE ID	LAB ID	PRESERVATIVES

Notes:

APPENDIX D

GREEN COUNTRY LABORATORY QUALITY ASSURANCE PLAN

6825 East 38th Street
Tulsa, Oklahoma 74145-1105
www.greencountrytesting.com

Green Country TESTING

Telephone 918.828.9977
Telephone 800.324.5757
Facsimile 918.828.7756

GREEN COUNTRY TESTING, INC.

QUALITY ASSURANCE PROGRAM PLAN

Revision 014

EFFECTIVE DATE: 1/1/10

REGISTRATION NUMBER: 282

REGISTERED TO: Abby Lazar

COMPANY NAME: A & M Engineering

DISPERSED: 2/4/10

CONTROLLED COPY

Reviewed by: _____
Brian Duzan, Laboratory Director

Reviewed by: _____
Star Yuan - QA/QC Officer

Green Country Testing, Inc.
6825 E. 38th Street
Tulsa, OK 74145
918-828-9977

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INTRODUCTION

The staff at Green Country Testing, Inc. (GCT) consists of highly qualified personnel having years of experience with the EPA methodologies. To service the needs of our customers better, our staff is actively pursuing the research and use of new methodologies and instrumentation. GCT provides full quality data packages on a standard turn time. Express service is also available without sacrificing data quality. In addition to our excellent turn time and extremely competitive fee schedules, a key to our success has been superior customer service. We at GCT understand the time pressures inherent to the environmental industry and have developed a management system to provide the highest quality results as rapidly as possible.

1.0 ORGANIZATION AND MANAGEMENT

1.1 Policy Statement

GCT has the responsibility and the commitment to establish procedures, which assure precise, accurate, complete, and representative data, is known and thoroughly documented. This Quality Assurance Manual contains the policies, procedures and requirements for the implementation and documentation of the quality assurance program used by GCT to ensure the production of scientifically sound, legally defensible data of proven quality. Holding times are only applicable to regulatory samples tested at GCT. All personnel concerned with environmental testing activities must familiarize themselves with the quality documentation and implement policies and procedures in their work. At GCT, Management has the highest commitment to compliance with NELAC, found in the NELAC standard in chapter five on Quality Systems.

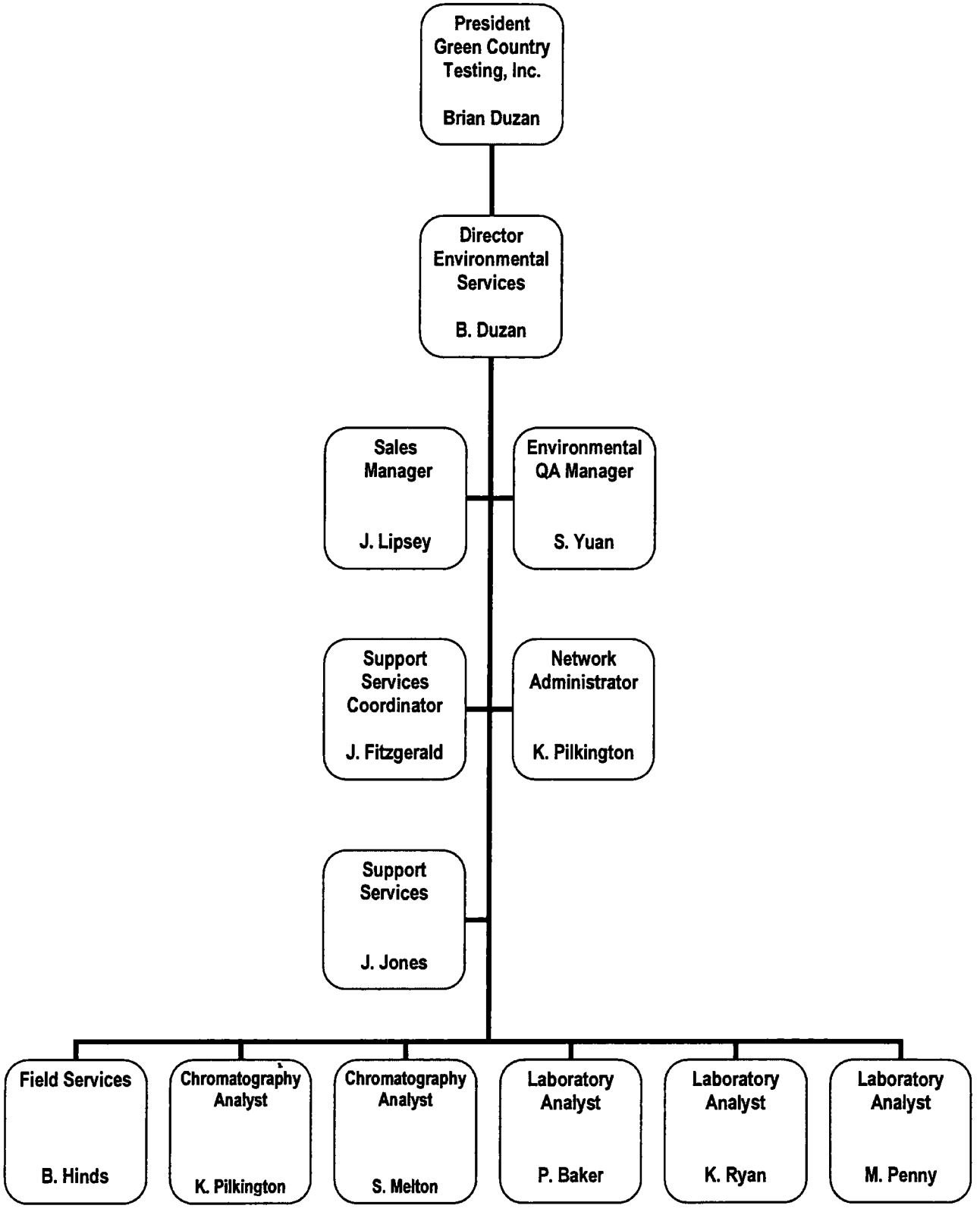
The methodologies used by GCT's Environmental laboratory primarily include those published by the USEPA and other agencies in the texts listed in **Appendix V** of this document.

1.2 Organization

Executing an effective program demands the commitment and attention of both management and staff. The Laboratory Director manages the QA program. The implementation of the QA program is the responsibility of the QA Manager who reports directly to the President. The Group Leaders who reports to the Laboratory Director coordinates each laboratory department. In addition, all personnel within the organization play a vital role in assuring the quality of our work. We believe the success of Green Country Testing is dependent upon the continued commitment of all within the organization to a strong and viable QA program.

For a complete list of laboratory personnel, **See Appendix II.**

1.2.1 Organization Charts



1.2.2 Laboratories Capabilities

Gas Chromatography/Mass Spectroscopy (GC/MS) Section

GC/MS is an acronym for gas chromatography coupled mass spectrometry, the state-of-the-art instrumentation for the qualitative and quantitative assessment of low level organic pollutants. Analyses are performed on a wide variety of matrices including soils, waters, sludges, oils, and solvents. The environmental target analyses done by the GC/MS section include organic priority pollutants, EPA hazardous substance list (CLP list) and Skinner List (refinery residuals). The qualitative power of the GC/MS is routinely used to screen hazardous waste samples for disposal decision making.

Gas Chromatography (GC) Section

The chromatography section uses gas chromatographs (GC). By combining a variety of sample introduction techniques: on column injection, and purge and trap with selective and semi-selective detectors, sensitive and precise quantitation of many organic contaminants can be efficiently accomplished. The use of chromatographic separation techniques with selective detectors can achieve low parts per billion detection limits for many organic compounds of environmental concern. In addition to trace level environmental contaminants, the chromatography section performs the challenging task of characterizing waste streams for target organic constituents so that appropriate disposal procedures can be chosen.

Trace Metals Section

GCT's metals section has the capability to analyze samples for more than 70 parameters using both Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP) and Atomic Absorption Spectroscopy (AA) technology. Samples that can be analyzed range from drinking waters to soil and hazardous wastes.

General Chemistry Section

The general chemistry section of the laboratory has capabilities for over forty different analyses making GCT truly a full service laboratory. A variety of methodologies are employed to test water, wastewater, soil and hazardous waste. The general chemistry section is responsible for classical, physical, and colorimetric analysis of environmental samples as well as more sophisticated analysis using TOC. The analytical information developed in this and other sections is necessary for appropriate waste disposal procedures to be followed.

Data Management Section

The data management section and the support services group are responsible for sample custody in the laboratory, sample log in, sample tracking, and accounting and report generation. Data management maintains and operates the laboratory's custom developed computerized Laboratory Information Management System. Data management is the heart of analytical flow and sample management. For maintenance and operational procedures, refer to GCT LIMS Training Manual.

Field Services Section

The field services section within the support services group provides pick-up services in the surrounding area. This section also performs manhole, tank, drum, soil, and NPDES sampling.

Network Administration Section

The IT section is responsible for the integrity of the GCT website, the server and the network of computers related to all above stated sections. The IT section is also responsible for keeping the LIMS system in pristine working condition. This LIMS system tracks all aspects of samples and their complete process through the lab including reagents and chemicals related to their analysis. In addition, the IT section is accountable for data archival and its storage.

1.2.3 Laboratory Personnel, Authority and Responsibilities

Laboratory Director

Minimum Requirements

- Bachelor's Degree in Science or 4 years experience in a related field
- 5 years experience in the area of environmental analysis

Responsibilities

- Overseeing a QA program that ensures all data generated is scientifically sound, legally defensible, and of known precision and accuracy
- Monitoring the QA Plan in coordination with the QA Manager to ensure compliance with QA objectives
- Prescribing and monitoring corrective actions
- Coordinating certification programs within the laboratory
- Scheduling and conducting annual management audits

Authority

The Director is the final authority on all issues dealing with data quality and has the authority to require that procedures be amended or discontinued, or analyses suspended or repeated. He also has the authority to suspend or terminate employees on the grounds of dishonesty, incompetence, or repeated non-compliance with QA procedures.

Deputization

In the absence of the Director or QA Manager, Organic Chemist, Sharon Melton shall hold responsibility for all technical decisions and interpretations involving testing procedures, methods, and reports. In the event that the Technical Director has a temporary absence of 15 consecutive days, Sharon Melton shall be the designated, qualified staff member taking this role. The accrediting body shall be notified in writing in the event that the Technical Director is absent for 65 consecutive calendar days.

Keli Pilkington has been designated as the Head over the Microbiology Department at Green Country Testing, Inc.

The laboratories approved signatories shall be Brian Duzan, Sharon Melton and Star Yuan.

Quality Assurance Manager

Minimum Requirements

- Bachelor of science degree or 4 years experience in a related field
- Two years experience in environmental testing
- Knowledge and understanding of all methods being performed in the laboratory
- Knowledge and understanding the NELAC Quality System.

Responsibilities

- Developing and implementing QA procedures within Green Country Testing to improve and maintain consistent data quality
- Maintaining a current version of the QA plan and annually reviewing the QA plan to assess and to ensure the effectiveness of the QA program
- Maintaining other laboratory procedures.
- Maintaining records and archives of all QA/QC data, PT results, audit comments, and customer inquiries concerning data quality.
- Performing statistical analyses of QC data and establishing data bases which accurately reflect the performance of the laboratory
- Distributing performance evaluation (PT) samples on a routine basis
- Evaluating the results of PT samples, and applying corrective actions as needed to ensure each department is able to generate data which meets the data quality objectives defined in this QA plan
- Reporting the status of the laboratory QA program to the Director with formal and informal communications

Authority

The Quality Assurance Manager of the laboratory has the authority to stop work for reasons of doubtful quality and, in conjunction with the Director, can accept data that fall outside normal QC limits if, in their judgement, there are technical reasons that warrant the acceptance of the data, but the data will still be flagged accordingly. The QA Officer will have access to the highest level of management for any decisions involving the quality of data or the quality program.

Deputization

In the absence of the QA Manager, the Group Leader of each test area shall hold responsibility in their respective testing divisions to accept or reject data based on well-defined QC criteria.

Chromatography Analyst

Minimum Requirements

- Bachelor degree and/or
- Two years experience in environmental testing

Chemists

Minimum Requirements

- Bachelor of science degree
- One year experience in environmental testing

Technicians (Analysts)

Minimum Requirements
- High school diploma or equivalent
- Six months experience in environmental testing

Responsibilities
- Having a working knowledge of the Green Country Testing's QA plan
- Ensuring all work is generated in compliance with the Green Country Testing's QA plan
- Performing all work according to defined methods
- Ensuring all documentation related to their work is complete and accurate
- Providing management with immediate notification of quality problems

Authority
Laboratory personnel have the authority to accept or reject data based on compliance with well-defined QC acceptance criteria. Laboratory management must approve the acceptance of data that falls outside QC criteria.

Network Administrator

Minimum Requirements
- High school diploma or equivalent
- Knowledge in Server 2003, MS Access and Office suite, TCP/IP, HTML

Responsibilities
- Imaging and restoration of workstations
- Archiving and backup of data
- Updating of the GCT website
- Maintenance of all equipment in the GCT intra network and LIMS system

Support Services

Minimum Requirements
- High school diploma or equivalent
- Working knowledge of DOS and Windows

Responsibilities
- Sample receipt and login
- Checking for proper sample containers, collection and preservatives
- Distributing samples throughout the laboratory for analysis
- Client services

Support Services Coordinator

Minimum Requirements
- High school diploma or equivalent
- Working knowledge of DOS and Windows

Responsibilities
- Client services

- Printing of draft and final reports
- Maintaining the LIMS system
- Scheduling of sampling events

Field Services

Minimum Requirements
- High school diploma or equivalent

Responsibilities
- Collecting and pickup of samples
- Preparing sampling containers and equipment
- Field testing of parameters with short holding times such as pH, Total Residual Chlorine and Dissolved Oxygen

Sales Manager

The Sales Manager position is a non-technical position. The requirements for this position will be evaluated on a case by case basis.

1.2.4 Client Confidentiality and Conflict of Interest

Green Country Testing's policy regarding client confidentiality is very rigid. Only authorized personnel may give verbal results. GCT personnel may only give results to other individuals if GCT has received prior consent from the client.

Test data shall only be supplied to the client submitting the sample. Only at the request of the client shall information be released to a third party. This request shall be submitted in writing, where applicable.

Only authorized employees are allowed access to a customer's file.

All GCT employees are obligated to maintain all company trade secrets, proprietary information, and confidential information. Confidential information includes, without limitation, manufacturing processes, computer programs, financial data, and marketing plans. Management and personnel are to be free from any undue internal and external commercial, financial and other pressures and influences that may adversely affect the quality of their work.

All proprietary information received by a customer shall be held in strict confidence and will not be used for any purposes other than provision of the services for Green Country Testing.

Employees shall not copy, transmit, publish, summarize, quote, or make any commercial or other uses whatsoever of Green Country Testing or customer confidential information.

All Green Country Testings employees are obligated to maintain objectivity and be free of conflicts of interest in discharging their professional responsibilities. Conflicts of interest include, but are not limited to, internal pressures, acquisition or commitment to acquire any direct or material indirect financial interest in a customer and/or participation as a promoter, voting trustee, director, or Manager of a client.

Violation of this trust will result in disciplinary action and any other remedies provided by applicable law.

2.0 AUDITS, ESSENTIAL QUALITY CONTROLS AND DATA VERIFICATION

2.1 Internal Audits

It is the responsibility of the QA Manager to plan and organize internal audits. All areas of the laboratory will be audited annually by qualified personnel who are, wherever resources permit, independent of the activity to be audited. Internal audits identify sources of potential nonconformances and are proactive measures to improve the QA program. Areas will be audited at a rate of one per month. Areas will be audited in a manner such that all analysts will be audited annually. If a client's work is affected by an Internal Audit, they will be notified in writing. When an internal or third party audit takes place and non-conformances arise, corrective action will be instituted.

The following 12 areas shall be scheduled for internal audit during each year. A review shall be scheduled when there is evidence supporting data integrity issues. Client notification of the corrective action is required when these issues arise. The Quality Assurance Officer will conduct an Internal Audit on all employees annually or sooner if there is any evidence of inappropriate actions or vulnerabilities related to data integrity.

The areas are Login, Subcontracting, Oil and Grease, Trace Metals, Solids, BOD, Wet Chemistry, Soils, GC, GCMS, Field, Microbiology. Archived records, customer service, and the IT department are also reviewed in addition to these topics. Quality Control and Misc. items are also included.

2.1.1 As part of the internal audit schedule an audit trail review in Omega will be conducted every six months. In March and September the Quality Officer will review and document the audit trail data. Every six months when the audit trail is reviewed, the previous six months will be looked at.

2.1.2 As part of the internal audit schedule, a semi-annual review of holding time reports will be conducted. In March and September the Quality Officer will review and document the holding time report data for various tests in the laboratory.

2.2 Management Review

Management review is a valuable tool for measuring the overall effectiveness of the QA program. It serves as an instrument for evaluating the program design, identifying problems and trends, and planning for future needs. The QA Manager will submit reports to management summarizing the information gathered throughout the laboratory. The review will take into account the following:

1. Report and discussion of matters arising from the last meeting.
2. Report and discussion of any correspondence from accrediting agency.
3. Discussion of client audit reports.
4. Results of internal audits with appropriate corrective action.
5. Results from participation in proficiency testing.
6. In house quality checks.
7. Client complaints.
8. Personnel including issues and training for new and existing staff.

9. Adequacy of staff, equipment, facilities.
10. Future plans and estimates for new work, staff, equipment, etc.
11. Suggestions for improvement of quality system.
12. Preventive Actions.
13. Corrective Actions.
14. The Suitability of policies and procedures
15. Other concerns impacting the quality system.

The Annual Management Review will be assessed on a pre-determined schedule. This review shall be done within the first 30 calendar days of the year.

2.3 Audit Review

All audit and review findings and any corrective actions that arise from them will be documented and those documents maintained in the QA files.

2.4 Proficiency Testing (PT) Program

Green Country Testing operates its PT program under the "Run one, Report one" philosophy. All PT samples are handled exactly like client samples. Unacceptable practices include multiple analysis and averaging, laboratory personnel from another facility analyzing the samples, or reporting data from an outside source.

The laboratory participates in two PT studies per year per matrix, where applicable. Requirements are the satisfactory completion of two PT studies out of the last 3 completed within a 12-month period. For our Louisiana certification only, in the event that PT results are not acceptable, the laboratory shall perform a corrective action, and order a remedial PT within 30 days. Results are considered satisfactory when they are within the acceptance limits established by the vendor. These results will be shared with certifying agencies along with the appropriate corrective action including the results of a Corrective Action PT sample.

When PT samples are not available, the following can be used:
1. internal quality control procedures using statistical techniques;
2. certified reference materials and/or in-house quality control using secondary reference materials;
3. replicate testing using the same or different test methods;
4. re-testing of retained samples;
5. correlation of results for different but related analysis of a sample (for example, total phosphorus shall be greater than or equal to orthophosphate).

2.5 Preventive Actions

Preventive action is a pro-active process to identify opportunities for improvement rather than a reaction to the identification of problems or complaints. The laboratory shall identify needed improvements and potential sources of nonconformances, either technical or concerning the quality system. If preventive action is required, action plans shall be developed, implemented and monitored to reduce the likelihood of the occurrence of such nonconformances and to take advantage of the opportunities for improvement. The following are routine functions performed as preventive actions to identify improvements in the quality system:

1.) Internal Audits-Every month the QA/QC Officer will audit an area of the laboratory to identify sources of non-conformances and other issues leading to improvements in the quality system. For more information on internal audits refer to section 2.1 of the QAM.
2.) Control Charts-Twice a year the QA/QC Officer updates control charts in an effort to identify potential problems or non-conformances, and to track historical data generated by the laboratory. For specific information on control charting refer to the SOP on control charts.
3.) PT Studies-Twice a year the laboratory analyzes blind PT's to identify any analytical problems in the quality system. For more information on proficiency testing refer to section 2.4 of the QAM.

2.6 Corrective Actions

For general procedures for corrective actions and departures from laboratory policies and procedures, **See the Corrective Action SOP.**

To the extent possible, samples will be reported only if all quality control samples within the batch are acceptable. If a quality control measure is found to be out of control and sample reanalysis cannot be performed due to insufficient sample, the data will be reported and all samples associated with the failed quality control sample(s) will be flagged. Notations of failed quality control samples will be made to the Case Narrative.

Green Country Testing, Inc. shall notify the primary Accrediting Bodies of any corrective actions taken for failed PT samples within 30 calendar days after the receipt of the final report from the PT provider. For any 2 out of 3 failed PT samples a Quik Response shall be obtained.

The responsibility for authorizing the resumption of work following the finding of a nonconformance is the decision of management at GCT.

2.7 Essential Quality Control

Precision
The degree to which the measurement is reproducible. Precision can be assessed by replicate measurements of reference materials, environmental samples, or laboratory control samples. Green Country Testing routinely monitors precision by comparing the %RSD (relative standard deviation) of RPD (relative percent difference) between check sample measurements with control limits established at plus and minus three standard deviations from the mean RPD of historical check sample data.

Accuracy
A determination of how close the measurement is to the true value. Accuracy can be assessed using standard reference materials, check samples, or spiked environmental samples. Unless specified otherwise in special contracts, Green Country Testing monitors accuracy by comparing check sample results with the control limits established at plus/minus three standard deviation units from the mean of percent recovery of historical check sample results. The determination of the accuracy of a measurement requires knowledge of the true or accepted value for the analyte signal being measured.

Completeness
A measure of the amount of valid data obtained from a measurement system compared with the amount that is expected to be obtained under correct normal conditions. To be considered complete, the data set must contain all QC check analyses verifying precision and accuracy for

the analytical protocol. In addition, all data are reviewed in terms of stated goals in order to determine if the database is sufficient.

Detection Limits

Limit Of Detection (LOD) - Method Detection Limit (MDL)

An LOD/MDL shall be initially determined for the compounds of interest in each test method in a quality system matrix in which there are not target analytes nor interferences at a concentration that would impact the results or the LOD/MDL must be determined in the quality system matrix of interest.

An MDL / LOD is the minimum signal level required to qualitatively identify a specific analyte by a specific procedure at 99% confidence level. An LOD/MDL is measured by analyzing a minimum of seven (7) replicates spiked at one (1) to five (5) times the expected method detection limit. It is calculated by the student t-value (99%) with n-1 degree of freedom times the standard deviation (MDL = t (n-1, 1-a=0.99)(s), where t (n-1, 1-a=0.99) is the t-statistic appropriate for the n number of samples used to determine s, at the 99% level. The LOD may also be determined by using blank data, but this process is not approved by the Oklahoma Department of Environmental Quality for MDL studies. Green Country Testing chooses to use the above procedure to determine MDL's and LOD's as documented in 40 CFR Part 136 Appendix B.

The validity of the LOD/MDL shall be confirmed by qualitative identification of the analyte(s) in a QC sample in each quality system matrix containing the analyte at no more than 2-3X the LOD/MDL for single analyte tests and 1-4X the LOD/MDL for multiple analyte tests. This verification shall be performed on every instrument that is to be used for analysis of samples and reporting of data. The LOD/MDL shall be verified annually for each quality system matrix, method, and analyte.

An LOD/MDL study is not required for any component for which spiking solutions or quality control samples are not available. The LOD/MDL must be determined each time there is a change in the test method that affects how the test is performed, or when a change in instrumentation occurs that affects the sensitivity of the analysis.

Limit Of Quantitation (LOQ) - Practical Quantitation Limit (PQL).

The LOQ / PQL shall be at level greater than the LOD / MDL. The LOQ study is not required for any component or property for which spiking solutions or quality control samples are not commercially available or otherwise inappropriate. The validity of the LOQ shall be confirmed annually by successful analysis of a QC sample containing the analytes of concern in each quality system matrix 1-2X the claimed LOQ.

Estimation of Uncertainty of Measurement

In most cases the nature of the test method will preclude rigorous, metrologically and statistically valid, calculation of uncertainty of measurement. As outlined in A2LA's "Guide for Estimation of Measurement Uncertainty in Testing", the best over all process is to use control charting. By control charting a known or accepted value, we can set the action limits for an estimate of measurement uncertainty at approximately the 99.7% level of confidence (3 Sigma) and the warning limits will provide an estimate of uncertainty at approximately the 95% level of confidence (2 sigma). The control charts can be generated upon clients request.

For complete details of internal quality control, **See NELAC Chapter 5 Quality Systems and the various SOPs including the SOP on Control Charts.**

2.7.1 Method Blanks

Reagent or analytical blanks are analyzed to assess the level of contamination that exists in the analytical system and might lead to the reporting of elevated concentration levels or false positive data.

An analytical blank is analyzed with every batch of samples processed. The analytical blank consists of reagents specific to the method carried through every aspect of the procedure, including preparation, clean up, and analysis. Ideally, the concentration of an analyte in the blank is below the reporting limit for that analyte. However, some common laboratory solvents and metals are difficult to eliminate to the parts-per-billion level commonly reported in environmental analyses. Documentation shall be provided by the analyst in the appropriate logbook each time a method blank is contaminated. Reprocessing or data qualification may be necessary. Upon data review by the QA/QC officer corrective action shall be necessary to minimize or eliminate the problem of contaminated blanks.

2.7.2 Laboratory Control Samples

Second source certified LCS and/or NIST traceable standards are used with each routine analytical method. LCS compounds consists of an aliquot of a clean (control) matrix similar to the sample matrix and of the same weight or volume: e.g, organic-free water for the water matrix or sand or soil (free of organic interferences) for the solid matrix. LCSs are used to monitor performance of routine analytical methods on a day-to-day basis. They are analyzed with each batch of samples and are supplemented with surrogates (where methods require) to ensure operational QC is available with each batch of samples processed.

2.7.2.1 If a large number of analytes are in the LCS, it becomes statistically likely that a few will be outside the control limits. This may not indicate the system is out of control, therefore corrective action may not be necessary. Upper and lower marginal exceedence (ME) limits can be established to determine when corrective action is necessary. A ME is defined as being beyond the LCS control limit (3 standard deviations), but within the ME limits. ME limits are between 3 and 4 standard deviations around the mean.

2.7.2.2 The number of analytes in the LCS is the basis for the number of allowable marginal exceedances. If more analytes exceed the LCS control limits than is allowed, or if any one analyte exceeds the ME limits, the LCS fails and corrective action is necessary. For methods with long lists of analytes, the marginal exceedance approach is relevant. It will not apply to target analytes lists with fewer than 11 analytes.

The number of allowable marginal exceedances is as follows:

1) >90 analytes in LCS, 5 analytes allowed in ME of the LCS control limit;
2) 71-90 analytes in LCS, 4 analytes allowed in ME of the LCS control limit;
3) 51-70 analytes in LCS, 3 analytes allowed in ME of the LCS control limit;

4) 31-50 analytes in LCS, 2 analytes allowed in ME of the LCS control limit;
5) 11-30 analytes in LCS, 1 analytes allowed in ME of the LCS control limit;
6) <11 analytes in LCS, no analytes allowed in ME of the LCS control limit;

Marginal exceedances must be random. If the same analyte exceeds the LCS control limit repeatedly, it is an indication of a systemic problem. Corrective action must be taken after the source of the error is located.

2.7.3 Duplicates

A duplicate is a sample that is divided into two separate aliquots. The aliquots are processed separately and the results (expressed as relative percent difference [RPD]) are compared to determine the effects of the matrix on the precision of the analysis.

2.7.4 Matrix Spike and Matrix Spike Duplicates

A matrix spike (MS) is a routine sample to which known concentrations of analytes have been added. The MS is taken through the entire analytical procedure and the recovery of the analytes is calculated. Results are expressed as percent recovery. The MS is used to evaluate the effect of the sample matrix on the accuracy of the analysis.

A matrix spike duplicate (MSD) is a sample divided into two separate aliquots, each of which is spiked with known concentrations of analytes. The two spiked aliquots are processed separately and the results compared to determine the effects of the matrix on the precision and accuracy of the analysis. Results are expressed as RPD and percent recovery.

NOTE: If the spike concentration is not specified in the SOP, the analyst may use discretion as to what level is necessary during analysis.

2.7.5 Surrogate Recoveries

Green Country Testing routinely adds surrogates to samples requiring GC analysis. These surrogates are organic compounds that are similar to the analytes of interest in chemical behavior, but which are not normally found in environmental samples. The surrogate recoveries are used by the lab to assess both the performance of the analytical system and the effectiveness of the method in dealing with each sample matrix. Surrogate recovery information is routinely reported to clients with all data packages.

3.0 PERSONNEL

3.1 Laboratory Management Responsibilities

The quality of all tests performed by Green Country Testing is dependent to a great extent on the skill levels and manpower distribution of all operating personnel. The QA department shall review each new program for special requirements, and periodically thereafter review the test capabilities of the equipment and the personnel.

Minimum Training Requirements include the following:

Instrument Operators	1 year experience + training course
Analyst - Chemistry Procedures	6 months experience
Analyst – Microbiological Procedures	6 months experience + training course
Analyst – Biomonitoring Procedures	6 months experience + acceptable reference toxicants
Sample Preparation	3 months experience
Sample Collection and Field Testing	6 months experience

Technicians in training must demonstrate the ability to reproduce reliable results through in-house QC samples and proficiency testing. They must work directly under the supervision of the Director, QA Manager, Technical Manager or Group Leader.

3.2 Records

The QA Manager maintains training files on every analyst. This file includes the analyst's education and experience credentials, training certificates, records of training courses, safety courses in compliance with OSHA guidelines, and analyst proficiency testing results. Training is provided for all personnel on an on-going basis.

4.0 FACILITIES – ACCOMODATION AND ENVIRONMENT

4.1 Environment and Work Areas

Test equipment and standards shall be calibrated and utilized in an environment controlled to the extent that dust, humidity, temperature, vibration electric mains, and corrosion or other factors do not interfere with precision measurements.

The conductivity of the Type II water used by the laboratory is checked weekly and recorded.

The laboratory enforces a physical separation of preparation or analysis when such activities would adversely affect the quality of the testing or measurement.

When required for equipment accuracy, certain testing areas shall be monitored for temperature and humidity control.

4.2 Evaluation of New Work

Upon the review of requests, tenders, and contracts at GCT, the laboratory shall ensure that the policies and procedures for these reviews leading to a contract for testing shall be defined, documented and understood. All new work shall be reviewed to ensure the laboratory has the appropriate facilities and resources available before accepting samples.

For all new clients, new contracts, new requests, and tenders a form shall be filled out for documentation. This shall include client information, if it is for compliance purposes, any unusual requirements, analyses requested, and if our certification covers the requested test. A contract may be any written or oral agreement to provide a client with environmental testing services. Any differences between the request or tender and the contract shall be resolved before any work commences. Each contract shall be acceptable both to the laboratory and the client.

In the event that the laboratory suffers a suspension or loss of accreditation, clients will be notified in writing via our customer service department within 7 working days.

5.0 EQUIPMENT AND REFERENCE MATERIALS

Any instrument which has been subjected to overloading or mishandling, or which gives suspect results, or has been shown by verification or otherwise to be defective, shall be taken out of service, clearly identified and wherever possible stored at a specified place until it has been repaired and shown by calibration, verification or check standard to perform satisfactorily. The laboratory shall examine the effect of this defect on previous tests, and where necessary reanalyze questionable samples.

Each major instrument shall be labeled, marked or otherwise identified to indicate its calibration status.

Records are maintained on each major piece of equipment and are located in the Equipment Manual and QA files. Manufacturer's manuals are kept in various locations throughout the laboratory to enable convenient access.

Maintenance logbooks are utilized to document the details of maintenance carried out to date and planned for the future, as well as, history of any damage, malfunction, modification or repair.

New Equipment

The Director, Technical Manager or QA Manager is responsible for establishing and maintaining a system for the qualification and calibration of all new test and measuring equipment used for testing.

All new equipment shall be installed, qualified, and calibrated with the use of a check standard, or by certifiable standards prior to use. All test and measuring equipment shall be recalibrated at regular intervals or whenever subjected to an environment that may affect its accuracy.

Reference Materials

Records of reference materials significant to the tests performed are maintained in the form of certificates of analysis. All of these records are stored in the QA files.

6.0 MEASUREMENT TRACEABILITY AND CALIBRATION

6.1 General Requirements

The laboratory shall have available all the necessary equipment, reference material, and methodologies to perform all analyses in accordance with US EPA protocols. All measuring operations and testing equipment having an effect on the accuracy or validity of tests shall be calibrated and/or verified before being put into service and on a continuing basis.

All test equipment shall be operated in accordance with written test procedures. In the event the laboratory must use equipment outside its permanent control, it shall ensure that the relevant requirements are met. All equipment shall be properly maintained. Maintenance procedures are documented in this manual and in the various equipment SOPs.

6.2 Traceability of Calibration

All calibration standards are traceable to national standards of measurement. Calibration records include the lot number of the appropriate standard(s). It is the QA Manager's responsibility to maintain records of all certificates of analysis for each lot of standard or reagent purchased by the lab.

6.3 Reference Standards

Reference standards of measurement such as Class 1 weights or NIST traceable thermometers are used for calibration or verification ONLY and no other purpose. This equipment is calibrated annually by certified calibrating bodies. Calibration certificates are kept in the QA files. The laboratory will conform to all manufacturing guidelines and procedures for the safe handling, transport, storage and use of reference standards in order to prevent contamination and protect their integrity.

6.4 Support Equipment

Support equipment is the necessary equipment used to support laboratory operations. These include but are not limited to: environmental chambers, balances, ovens, refrigerators, freezers, incubators, water baths, temperature measuring devices (including thermometers and thermistors), thermal/pressure sample preparation devices and volumetric dispensing devices (such as Eppendorf, or automatic dilutor/dispensing devices) if quantitative results are dependent on their accuracy, as in standard preparation and dispensing or dilution into a specified volume.

All support equipment shall be maintained to ensure that the equipment is capable of being properly calibrated. See **various SOP's** for calibration acceptance criteria. When support equipment can not be properly calibrated, the Group Leader, QA Manager, Technical Manager, Assistant Director, or Director shall be notified immediately so that the equipment can be removed from service. Service reports are kept in the QA files or within the lab containing the equipment. Maintenance logs are kept near the equipment.

Equipment will be calibrated or verified on the following schedule:

Autoclaves	daily or before each use by analyst using fixed thermometer + indicator
Balances	daily or before each use by analyst + annual service by certified vendor
Conductivity meters	daily or before each use by analyst + annual cell constant determination
Freezers	daily $\leq 0^{\circ}C$ by analyst
Fume Hoods	annually by certified vendor
Meters w/auto temp compensation	annually by QA Manager or designee
NIST traceable thermometers	annually by certified vendor
Ovens, Incubators, and Baths	daily or before each use by analyst
Total Coliform & Fecal Coliform Incubators	twice daily at least 4 hours apart
pH meter	daily or before each use by analyst
Pipettors (Eppendorf or Repipets)	quarterly by QA Manager or designee
Refrigerators	daily (0-6°C) by analyst
Working thermometers	annually by QA Manager or designee

6.5 Instrument Calibration

6.5.1 Initial Instrument Calibration

The details of initial instrument calibration are included in the method Standard Operating Procedure (SOP). Sufficient raw data records are retained to permit reconstruction of the initial instrument calibration including calibration date, test method, instrument, analysis date, analyte name(s), analyst, concentration and response, calibration curve or response factor; or unique equation or coefficient used to reduce instrument responses to concentration.

Initial calibrations are verified with a second source standard (LCS) or a lot other than that of the calibration standard. In the case that testing includes sample preparation, the analyst shall analyze the second source standard without preparation. All calibration standards must be traceable to national standards, where available. Certificates of analysis for calibration standards are kept in the QA files.

All calibration curves require a minimum of 3 standards. Acceptable calibration curves require a 0.995 or better correlation coefficient. If this criteria is not met, the problem must be identified and resolved before the calibration is attempted again. If the calibration is automated and samples are analyzed with it and the acceptance criteria is not met, corrective actions must be performed, documented, and the calibration and all samples reanalyzed.

Sample results greater than the highest calibration standard must be diluted and reanalyzed. The lowest calibration standard must be above the Practical Quantitation Limit (PQL). Calibration standards must include concentrations at or below the regulatory limit if the laboratory knows these limits, unless these concentrations are below the PQL.

6.5.2 Continuing Instrument Calibration Verification

When an initial instrument calibration is not performed on the day of analysis, the validity of the initial calibration shall be verified prior to sample analyses by a continuing instrument calibration verification with each analytical batch. The details of the continuing instrument calibration are included in the method SOP.

A CCV must be analyzed at the beginning and end of each analytical batch. If an internal standard is used, only one CCV must be analyzed per analytical batch. Sufficient raw data records must be retained to permit reconstruction of the CCV and must explicitly connect the CCV to the initial calibration.

7.0 TEST METHODS AND STANDARD OPERATING PROCEDURES

7.1 Standard Operating Procedures (SOPs) and Test Methods

It shall be the responsibility of the QA Manager and the Director to ensure that the current procedures are being used. If the latest revision is not in our possession, the client or regulatory agency shall be asked to provide the new revision. The Director or QA Manager shall review new testing procedures to ensure GCT complies with the latest regulations and client needs. The most recent method shall be kept and used at the bench level. This system ensures that all of the procedures conducted by Green Country Testing are of the latest revision.

Standard operating procedures (SOPs) have been developed by Green Country Testing for all procedures and testing performed by GCT staff. Copies of these procedures are controlled by QA and kept at the bench level throughout the laboratory to make them readily available to all analysts. One set of manuals is kept by the QA Manager along with a listing of the location of all controlled copies. Another full set of procedure is centrally located for easy access by all GCT personnel.

All procedures shall be purged from the system when a new revision is put into use. The QA Manager will retain one copy of each outdated revision in a "Superseded" file. For specific and detailed information on standard operating procedures, please refer to the SOP manuals. The listing of the most recent in-house revision of each procedure is on file separate of this manual and is controlled separately by an approved SOP. Strict document control is exercised over all laboratory manuals and postings.

Any samples that do not fall into the standard SOP's or standard methods shall be dealt with on an individual basis. The analyst shall inform the Laboratory Director or QA/QC Officer and they will come up with a plan on how to handle the unusual sample. Any departures from the SOP or published methods will be documented and the data shall be flagged accordingly.

Refer to the SOP on the Creation of Revision of SOP's.

7.2 Data Verification

Analytical data generated within Green Country Testing are extensively checked for accuracy and completeness. The data validation process consists of data generation, reduction, and 3 levels of review, as described below:

Level I

The analyst who generates the analytical data has the prime responsibility for the correctness and completeness of the data. All data are generated and reduced following protocols specified in referenced methods. Each analyst reviews the quality of his work based on the following set guidelines, where applicable:

- The appropriate methods have been followed with any special sample preparation requirements;
- Sample preparation information is properly documented;
- Analysis information (lab ID, client, test method and result) is correct;
- QC samples are within established control limits;
- Documentation is complete (e.g. all anomalies in the preparation and analysis have been documented, out-of-control rechecks [if required] are complete; holding times are documented, etc.).

The data results are documented, initialed and dated by the analyst. This initial review step, performed by the analyst, is the first level of review. The analyst then passes the data to an independent reviewer (the Group Leader, Technical Manager, QA Manager, or Director or another qualified analysts trained to run the test being checked) who performs the LEVEL II review.

Level II
A peer, the Technical Manager, QA Manager, or Director performs an independent review of the data. This review is also conducted according to the following set of guidelines and is structured to ensure, where applicable:

- Calibration data are scientifically sound, appropriate to the method, and completely documented;
- QC check samples are within established guidelines;
- Qualitative identification and quantification of sample components are correct;
- Documentation is complete and correct (e.g. anomalies in the preparation and analysis have been documented; out-of-control rechecks [if required] are complete; holding times are documented, etc.);

Level II reviews are structured so that all calibration data and QC sample results is reviewed. If no problems are found with the data, the review is complete. A date stamp is used by the reviewer. If any problems are found with the data, all samples in the batch are checked in their entirety. Corrections or amendments to test records are made in a manner that does not obliterate the original data and are dated and initialed by the person responsible.

Level III
The final report is given to the QA Manager, Assistant Director or Environmental Director for final review. The report and data are reviewed to assure that the data package is complete and the results are consistent with method and contract requirements. The final reviewer signs the final report and takes ultimate responsibility for data released to the client.

7.3 Documentation and Labeling of Standards and Reagents

Quality data requires traceable standards of proven purity. To ensure the highest purity possible, all primary reference standards and standard solutions used by Green Country Testing are obtained from the National Bureau of Standards, the EPA Repository or other reliable commercial sources. GCT attempts to use only standards traceable to NIST or traceable back to its original source. All standard logs allow for the identification of the standard used and lot

number so that it is traceable to the analyses performed. For more information concerning the standards, refer to the standard logs.

Stock and working standards are checked with each use for signs of deterioration, such as discoloration, formation of precipitates, or change of concentration. All containers are properly labeled with compound, concentration, expiration date, initials of analyst, and date of preparation.

Reagents are examined for purity by subjecting a blank aliquot or sub-sample to the analytical methods corresponding to its intended use. All materials shall be stored under appropriate conditions in accordance with OSHA guidelines specific to each chemical to ensure the integrity of the materials and the health and safety of all employees.

7.4 Computers and Electronic Data Related Requirements

All computers and electronic data requirements are developed and maintained by the IS department. For complete details of the program, **See IS Manual on LIMS Validation, SOP on Sample receipt and Login, and SOP on Data Backup and Archival.**

8.0 SAMPLE HANDLING, SAMPLE ACCEPTANCE AND SAMPLE RECEIPT

Data of known quality begins with the collection of the sample. All sampling and ambient data collection is performed in accordance with accepted guidelines and procedures established by the USEPA and Oklahoma Department of Environmental Quality (ODEQ). A number of sampling protocols may be employed to satisfy these project requirements though the ultimate objective for all sampling is to obtain a representative sample.

Prior to establishing sampling stations and parameters to be analyzed, a thorough review of program objectives is undertaken by the Account Managers in association with the Director and Field Services group. This review establishes the sampling points, type of sample required, and the analytical parameters to be used in the project. The sampling and parameter information help set the type of field equipment, collection bottles, and preservation chemicals required completing the program.

As part of this review, the client will be an important element for successful completion of the sampling event. Any client may request a copy of our QAM or other SOP's to aid in there ability to ensure that the quality objectives are met. If upon having a conversation with the client we determine that their knowledge may be insufficient or lacking in certain areas, we may choose to send them our QAM or SOP's to further there knowledge on the requirements for sampling and analysis of samples.

Samples must be collected in appropriate containers which have been properly cleaned and to which the correct preservative has been added. This step is important to ensure volatilization, adsorption, or chemical change introduces no contamination. Green Country Testing can assist in the sample collection process with trained sampling technicians and by making available to the client a set of appropriate sample containers that have been properly prepared for use in sample collection.

The maximum holding times recommended by Green Country Testing, appropriate containers and preservatives, and minimum sample volumes required for routine organic, metal and conventional parameters are in agreement with state and federal policies.

When the laboratory personnel must split samples, specific standard operating procedures are followed.

8.1 Sample Tracking

The sample is assigned a unique 1 letter 8-digit number. Each sample point or location shall be assigned a separate fraction number i.e. –01A, -02A, etc. For example, T02090001-01A is the sample(s) for Tulsa (T), in the year 2002 (02), in the month of September (09), is the first sample(s) of the month (0001), and is the first sampling point or location (fraction 1).

This sample number (workorder number or laboratory ID) is shortened and a label is printed out with all pertinent sample information, for example, T02090001-01A becomes 209001-1.

See the SOP for sample login and receipt.

8.2 Sample Acceptance

All samples must meet the following requirements for acceptance for analysis, where applicable:

1. The chain of custody must be complete and shall include client, sample description, date and time of collection, sampler, preservation type, sample type, relinquishing and received by signatures, and special remarks concerning the sample. Results generated in the field shall be recorded in the comments section along with the time of analysis and the analyst initials.
2. All samples must be properly labeled with a durable label completed in indelible ink and shall include client, description, date and time of collection, sampler, and required tests.
3. All samples shall arrive in proper sample containers with the appropriate preservatives.
4. All samples shall arrive prior to holding time expiration.
5. All samples shall arrive with sufficient sample volume to perform the required tests.
6. All samples that show signs of damage, contamination or inadequate storage shall be brought to the attention of the client.

When any of these criteria are not met, the client shall be notified immediately. If the client insists that the sample be analyzed, the date, time, client's name and specifics of the conversation shall be written on the Sample Login Checklist. If the client cannot be contacted, the Laboratory Director, QA Manager, or Technical Manager shall make the decision for sample acceptance. This information will be written on the Sample Login Checklist.

8.3 Sample Receipt

Samples are received either directly from the client, through a courier such as United Parcel Service or Federal Express or through our field services section (route driver). The samples are checked for label identification and for complete, accurate chain of custody after which the individual performing login signs the chain. The condition of the samples is recorded on the Sample Login Checklist. When questions arise due to the sample's suitability for testing (i.e. discrepancy between ID on sample container and chain of custody or analyses required, etc) the laboratory shall contact the client for further instruction or clarification before proceeding.

Samples follow a two-phase login procedure. The first includes manually recording information and assigning a unique identification number in a logbook. The second consists of entering the sample login information into a computerized LIMS system, which stores all identification and essential information.

The login book includes the receiving date, assigned sample number and the client's name. ONLY black will be used. The sample is checked with pH paper to determine if it is appropriately preserved (where necessary). Any discrepancies are noted on the Sample Login Checklist. Holding times are verified and the analyst is notified if the holding times are to expire soon. The samples are distributed to the appropriate locations for analysis or to the appropriate storage area until analysis.

8.4 Sample Storage

Samples that are stored under refrigeration require a temperature of 0-6°C. Separate refrigerators exist for all standards, reagents, food and other potentially contaminating sources. Sample fractions, extracts, leachates and other sample preparation products are stored in the same manner as the original sample.

See Appendix IV.

8.5 Sample Disposal

All samples are disposed in compliance with all applicable federal, state, and local guidelines. Samples will be retained for 4 to 8 weeks after sample analysis. Various samples are stored for longer periods at the request of the client.

See various SOPs and the Chemical Hygiene Plan.

9.0 RECORDS

All records that would allow historical reconstruction of laboratory activities are maintained for **7 years.** This includes but is not limited to the following:

1. Customer purchase orders
2. Customer test records and test instructions with data results
3. Log in books
4. Calibration, standard preparation logs and maintenance logs
5. Test reports and chain-of-custody
6. Computer database information (transferred and stored on disk or tape)

There are two filing systems at GCT, one for the current year and one for the previous year. The files for the current year are located in the main file cabinets outside the laboratory director's office. The files for the previous year are kept in the vault room, which is located in the Organics department. Every year the new files will be started in the main file cabinets, the previous year placed in the vault, and the oldest year boxed up and taken out to the storage shed.

Only permanent ink in black will be used. No entry will be obliterated by any method. If corrections are to be made, it will be a single line strike through with date and initials of person making the change. In the event of ownership transfer of the laboratory or the laboratory ceases operation, the client shall be notified and the records shall be maintained by the current ownership or transferred to the new ownership or transferred to the client.

Refer to the SOP on Sample receipt and login

10.0 LABORATORY REPORT FORMAT AND CONTENTS

Reports will contain the following, where applicable:

1. Cover page with laboratory name and division, client name and address, workorder number (laboratory ID or sample number), approval signature, date sample received, and date of report issuance.
2. The Case Narrative or comments page will contain the following:
   a) client generated results such as pH, Dissolved Oxygen, Flows, Temps, Chlorine Residual;
   b) subcontracted results to LELAP or ODEQ accredited labs without existing LIMS test code
   c) notations of non standard sample conditions such as temperature out of the 4 ± 2°C criteria;
   d) failed quality control samples such as Method Blanks, LCS/LCSD or MS/MSD along with samples that cannot be reanalyzed due to insufficient quantities;
   e) deviations from test methods such as emulsions that would require filtration of the sample not called for within the test method;
   f) and/or notations of missing required items i.e. dates and times of collection.
3. The report also contains the following statements: "This report shall not be reproduced except in full, without the written approval of Green Country Testing, Inc." and "The results relate only to the samples tested."
4. Chain of custody forms or sampling request form with custody information and Sample Login Checklist.
5. The report body shall contain results generated by Green Country Testing employees along with appropriate data flags for failed QC.
6. Results may include any and all QC and related documents associated with sample testing.

When there is exceptionally permitting departures from documented policies and procedures or from standard specifications, the analyst should consult the management of GCT on how to proceed and additionally provide documentation in the appropriate logbook.

Report Generation
Environmental reports are generated by the Laboratory Management System (LIMS).

For Report Generation, refer to the **GCT SOP on Sample receipt and login.**

Report Revisions
Reports may be revised at the request of the customer and approval of the Director. Green Country Testing may also revise the reports upon discovery of an omission or error. A notation of "REVISED" and the date is made in the LIMS whenever a report is revised. The original report is kept unchanged and a copy of the revised report is placed in the file.

Faxing/Mailing Reports
Reports will be faxed to customers upon their request. Reports may also be faxed at the request of the Director, QC staff, or Administrative Assistant's discretion.

Faxed transmissions will include the following:

"Confidentiality Notice: This facsimile transmission (and/or the documents accompanying it) may contain confidential information belonging to the sender. The information is intended only for the use of the individual or entity named above. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or

the taking of any action in reliance on the contents of this transmission is strictly prohibited. If you have received this transmission in error, please immediately notify us by telephone to arrange for the return of the documents."

Final data (data that has completed the QC process and a hard copy is/has been sent to the client) may be given by anyone in the department.

Reports will only be mailed or faxed to those persons and companies whom have been specifically designated by the customer to receive them.

Clients are notified via Customer Service within 48 hours or two business days when events cast doubt on the validity of test results.

11.0 SUBCONTRACTING ANALYTICAL SAMPLES

Only certified companies will perform calibrations of laboratory equipment. These certifications are kept on file in the QA files.

Analytical services not performed by Green Country Testing will ONLY be sent LELAP or ODEQ certified laboratories or other required certifications as required. Copies of these certifications are kept on in the QA files. Clients are notified in writing of subcontracted work. Lab reports denote subcontracted work with their certification number in the analyst field.

Appropriate chain-of-custody procedures are followed when submitting samples to a subcontractor for analysis. Subcontracted reports are kept in the file with the copy of the client's report. All subcontractors must show conformance to Green Country Testing quality requirements. Where available, standard operating procedures will be requested and filed in the QA files.

12.0 OUTSIDE SUPPORT SERVICES AND SUPPLIES

Outside support and supplies will be purchased from sources qualified and/or approved by the Director and/or QA Manager. The laboratory will purchase only those supplies that are of adequate quality to provide confidence regarding the reliability of the analysis.

All supplies and equipment purchased will be inspected and tested (where appropriate) to verify the quality of the item. Under no circumstances will consumable supplies be used until inspection is complete.

The purchasing agent will maintain records of all suppliers from who support services or supplies are purchased. The purchasing agent may choose a vendor when negotiating a lower price as long as the quality of the item is equivalent to or better than the original. The Director must give approval for the changes.

Copies of purchase orders, packing slips, and vendor invoices are maintained in a separate file.

Refer to the SOP on Reception, Storage and Labeling of Consumables

13.0 COMPLAINTS

Complaints by clients or personnel for any circumstances raising doubt about the laboratory's adherence to policy or procedure will require an internal audit for resolution. Once resolved, full documentation of the corrective action procedure is filed for future reference. The QA Manager

and/or Director routinely review corrective action documentation. For other complaints or comments from clients, a logbook is kept by Customer Service to document these occurrences so that we might determine trends or other courses of action.

14.0 ETHICS AND DISCIPLINARY POLICY

14.1 Ethics Policy

The successful business operation and reputation of Green Country Testing is built upon the principles of fair dealing and ethical conduct of our employees. Our reputation for integrity and excellence requires careful observance of the spirit and letter of all applicable laws and regulations, as well as a scrupulous regard for the highest standards of conduct and personal integrity.

The continued success of Green Country Testing is dependent upon our customers' trust, and we are dedicated to preserving that trust. Employees owe a duty to Green Country Testing, its customers, and shareholders to act in a way that will merit the continued trust and confidence of the public.

GCT will comply with all applicable laws and regulations and expects employees to conduct business in accordance the letter and spirit of all applicable laws and to refrain from any illegal, dishonest, or unethical conduct.

In general, the use of good judgement, based on high ethical principles, will guide you with respect to acceptable conduct. If a situation arises where it is difficult to determine the proper course of action, the matter shall be discussed openly with the Laboratory Director and Quality Assurance Officer.

Compliance with this policy of ethics is the responsibility of every employee. Disregarding or failing to comply with this policy could lead to disciplinary action, up to and including possible termination of employment.

Ethics training will be conducted on an annually basis by the Quality Assurance Officer.

Refer to SOP on Employee Training

14.2 Disciplinary Policy

This policy states GCT' s position on administering equitable and consistent discipline for deviations from the policies within this manual. The major purpose of any disciplinary action is to correct the problem, prevent recurrence, and prepare the employee for satisfactory service in the future.

Disciplinary action may call for any of four measures – verbal warning, written warning, suspension with or without pay, or termination of employment- depending on the severity of the problem and the number of occurrences. There may be circumstances when the measures are followed in progression. Use of discipline is intended to correct problems at an early stage, benefiting both the employee and Green Country Testing.

15.0 MANUAL AND LOGBOOK REGISTRATION AND DISTRIBUTION

The quality manual and laboratory logbooks shall be distributed and maintained on a controlled copy basis. Manuals released for distribution must be signed by authorized personnel. All

registered manuals and logbooks must be accounted for on the internal document control log located in the QA/QC office. Each time a manual or logbook is distributed, it is given a unique ID number in either the Quality Manual log or the laboratory notebook log with the start date and GCT ID number on the front cover. It is the responsibility of each employee who receives a registered manual to read and understand the contents of the manual.

The quality manual shall be reviewed annually to ensure continued correctness and applicability. When required, interim reviews shall be made. Notification of proposed additions and/or amendments may be made by anyone at any time and submitted to the Quality Assurance Manager. All requests shall be reviewed by the Director and QA Manager for approval. Approved additions and/or amendments shall be distributed to registered manual holders. It is the responsibility of each registered manual holder to enter the approved amendment in his or her manual. Amendments within each manual revision shall be numbered consecutively and records maintained on the list of approved revisions/amendments. All users have read only access to sensitive documents, however management and QA personnel at GCT have full control to make the necessary changes to these documents. All external documents shall be given a unique ID number in the external document control log located in the QA/QC office.

State of Arkansas
Department of Environmental Quality
Laboratory Certification Program

GREEN COUNTRY TESTING

TULSA, OK

has earned certification by law in accordance with Code Annotated §8-2-201 et seq., the State Environmental Laboratory Certification Program Act for the following parameters:

Alkalinity	pH	Calcium	Selenium
Ammonia	Phenol	Chromium	Silver
BOD	Sulfate	Cobalt	Sodium
CBOD	TDS	Copper	Thallium
Chloride	Total Phosphorus	Iron	Titanium
Chlorine	TSS	Lead	Vanadium
COD	Aluminum	Magnesium	Zinc
Cyanide	Antimony	Manganese	DRO
Fluoride	Arsenic	Mercury	GRO
Hardness	Barium	Molybdenum	Semi-volatiles
Nitrate	Beryllium	Nickel	Volatile Organics
Oil & Grease	Cadmium	Potassium	

Laboratory ID: **88-0968**
Certificate Number: **09-025-1**
Issued Date: **27 April 2009**
Expired Date: **6 February 2010**

Teresa Marks
ADEQ Director

©DOCS 746

Oklahoma Department of Environmental Quality
Laboratory Accreditation Program

State Laboratory ID: 7604
EPA ID: OK01007

Certificate #: 2009-82

Green Country Testing, Inc.

6825 E. 38th Street
Tulsa, OK 74145

has been certified for the examination of environmental samples for fields of testing listed on the laboratory's Scope of Accreditation.

Continued certification is contingent upon successful on-going compliance with OAC 252:301 which was promulgated and adopted pursuant to the Oklahoma Environmental Quality Code (Code), 27AO.S. § 2-4-101 *et seq.* Specific methods and analytes certified are cited on the laboratory's Scope of Accreditation.

The Scope of Accreditation and reports of on-site inspections are on file at the Oklahoma DEQ, Customer Services Division, Laboratory Accreditation Program, 707 N Robinson, P.O. Box 1677, Oklahoma City, Oklahoma 73101-1677, (405) 702-1000, www.deq.state.ok.us. Clients and customers may verify with this agency the laboratory's certification status for particular methods and analytes.

ISSUED: 9/1/2009

EXPIRES: 8/31/2010

Judith A. Duncan, Customer Services Division Director

David Caldwell, Laboratory Accreditation Program

This certificate is valid proof of certification only when associated with its Scope of Accreditation.

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Is hereby granting a Louisiana Environmental Laboratory Accreditation to:

Green Country Testing, Inc.

6825 E. 38th St.
Tulsa, OK 74145

Agency Interest No. 85693

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory, and does not constitute an endorsement of the suitability of the listed methods for any specific application.

To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Nathan Levy

Nathan Levy, Administrator
Permit Support Services Division

Certificate Number: 04002
Expiration Date: June 30, 2010
Issued On: July 1, 2009

STATE OF KANSAS

DEPARTMENT OF HEALTH AND ENVIRONMENT

CERTIFICATE

This is to certify that Certificate No. E-10232

Green Country Testing, Inc.
6825 East 38th Street
Tulsa, OK 74145-1103

has been accredited in accordance with K.S.A. 65-1,109a for performing environmental analyses for the parameters listed on the attached form. Continuous accreditation depends on successful, ongoing participation in the program. Clients are urged to verify with this agency the laboratory's certification status for particular methods and analytes.

EFFECTIVE DATE: 02/01/2010

EXPIRATION DATE: 01/31/2011

Secretary
Department of Health and Environment

Michelle L. Wade

Environmental Laboratory Certification Officers

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ATTACHMENT C

QUALITY ASSURANCE PROJECT PLAN (QAPP)

QUALITY ASSURANCE PROJECT PLAN (QAPP)

LIMCO AIREPAIR
ODEQ-LPD CASE NO. 09-303
5304 SOUTH LAWTON AVENUE
(WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
TULSA, OKLAHOMA

SUBMITTED TO:
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
OKLAHOMA CITY, OKLAHOMA

DATE SUBMITTED: FEBRUARY 4, 2010

A & M PROJECT NO. 2059-003

PREPARED BY:

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128-4813
PHONE (918)-665-6575 & FAX (918)-665-6576

A&M PROJECT MANAGER	Irfan Taner	Chief Geologist/Project Manager
	Printed Name	*Title*
	Signature	*Date*
A&M QA MANAGER	Turgay M. Ertugrul	Vice President/Project QA Manager
	Printed Name	*Title*
	Signature	*Date*
LIMCO PROJECT MANAGER	Dan Kraft	Sr. VP/COO
	Printed Name	*Title*
	Signature	*Date*
ODEQ PROJECT MANAGER		
	Printed Name	*Title*
	Signature	*Date*

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DISTRIBUTION LIST

Copies of the approved Quality Assurance Project Plan (QAPP) will be distributed by Limco Airepair, Inc. and sent to the Quality Assurance (QA) officers of the following organizations or entities:

1) Oklahoma Department of Environmental Quality – Land Protection Division
2) Limco Airepair, Inc. – Mr. Dan Kraft
3) Sneed Lang Herrold, PC – Mr. Andrew Harrison
4) A & M Engineering and Environmental Services, Inc.

It shall be the responsibility of the QA officers to distribute the QAPP to the project managers and any representatives of other groups involved.

QUALITY ASSURANCE PROJECT PLAN (QAPP)
FOR
SITE CHARACTERIZATION WORK PLAN

LIMCO AIREPAIR
ODEQ – LPD CASE NO. 09-303
WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST
CITY OF TULSA, TULSA COUNTY, OKLAHOMA

A. PROJECT MANAGEMENT

A.1. PROJECT/TASK ORGANIZATION

A & M Engineering and Environmental Services, Inc. (A & M Engineering) was contracted in June 2009 by Limco Airepair to prepare a Work Plan for the Limco Airepair ("Site"). The Site consists of approximately 4.7 acres of land with building facilities, located within the Northwest ¼ of the Northeast ¼ of Section 35, Township 19 North, Range 12 East in the City of Tulsa, Tulsa County, Oklahoma. The Site is situated in the northeast portion of the State of Oklahoma and within the west-central portion of Tulsa County. The Topographic Map (Figure 1), depicting the location and the Site Map (figure 2) depicting the general layout of the Site, are provided in Attachment A. The Site is zoned as Light Industrial (IL) by the City of Tulsa and surrounding areas are mainly Light Industrial.

This Work Plan is being presented for review to the Oklahoma Department of Environmental Quality (ODEQ) in association with the consent order (Case No. 09-303). In preparing this Work Plan, Limco Airepair, Inc. and A & M Engineering reviewed the information and data included in the previous studies and have conducted several site visits.

The Oklahoma Department of Environmental Quality (ODEQ) and Limco Airepair will function as both project decision maker and data user for this project. Mr. Irfan Taner (Chief Geologist/Senior Project Manager) of A & M Engineering is the Project Manager (PM)

and will serve as final authority for work conducted by or through A & M Engineering for the duration of this project. Mr. David Cooper (Environmental & Safety Specialist) of A & M Engineering will act as Project Supervisor (PS) reporting directly to Mr. Taner. A Compliance & Safety Specialist, Field Engineer, and Field Technician may be assigned during various aspects of this project and will report directly to Mr. Taner, as will the drilling subcontractor, Mr. Allan Brantley (General Manager) of Mohawk Drilling. Additional personnel may be assigned as necessary by the PM to support the work involved and maintain scheduled project deadlines. Mr. Turgay Ertugrul, PE (Vice President) of A & M Engineering will act as Project Quality Assurance Manager (PQAM) and will communicate directly to Mr. Taner. The EPA certified laboratory that will be used for analysis of collected environmental samples will be Green Country Testing with Mr. Brian Duzan (Director of Laboratory Operations) reporting directly to the Project QA Manager, Mr. Turgay Ertugrul. Professional qualifications of A & M Engineering personnel associated with this project can be found in Appendix B. The Project Organizational and Implementation Chart (Table 1) is provided in Appendix C and represents the relationships and lines of authority for the proposed project personnel during implementation of the project.

The project is expected to begin after ODEQ approval is obtained. The project will be implemented in two (2) phases, the field portion and the office portion. Field activities will take approximately two (2) weeks and the laboratory and report preparation will take approximately Nine (9) weeks.

A.2. PROBLEM DEFINITION/BACKGROUND

The Site consists of two industrial buildings, equipment/material storage yard, and parking lot occupied by Limco Airepair, a company that manufactures and assembles heat transfers, ducting, and air conditioning units. Limco Airepair owns the main building and leases the building located on the west portion of the site. Basic operations that are conducted on-site include: the manufacture and repair operations of heat exchangers and repair of aircraft air ducts. The facility operates 16 hours a day, 5.5 days a week and 22 days month, or 4,224 hours per year.

A Phase I ESA was originally conducted in December 2008 and January 2009 for the Limco Site. According to historical resources and the site inspection, the Site consisted of vacant land until the main building structure was constructed in the mid to late 1970s with additions in the early 1980s. The leased building was also constructed in the mid to late 1970s. Limco Airepair has occupied the main building since the mid 1990s and leased the adjacent building since 2006. According to records, light industrial/manufacturing companies have occupied the Site from 1976 to 2008.

The Site Layout (Figure 2) in Appendix A shows the layout of the Site.

A.3. PREVIOUS STUDIES AND INVESTIGATIONS

A Phase I Environmental Site Assessment (ESA) was conducted at the Limco Airepair Facility in December 2008 and January 2009 by A & M Engineering and Environmental Services, Inc. (A&M Engineering). In order to further evaluate the condition of the subsurface near the floor grates and pits near the Clean Line area and WWTS, further assessment of the soil and groundwater was recommended.

On January 26, 2009, four (4) borings (TH-1 through TH-4) were drilled at the Site. All of the borings were drilled near the main building. TH-1 was located north of the main

building and employee parking lot and was the upgradient boring. TH-2 was situated approximately 50 feet southeast of the Compressor Room. All of the borings were completed with one (1)-inch diameter screens for groundwater sampling. After letting both borings recharge for groundwater, water samples were collected from TH-1, TH-2, and TH-4. There was no groundwater in TH-3 so no groundwater sample was collected. An additional surface soil sample (S-Drum) was collected east of the flammable drum storage in a drainage ditch. The previous sample locations are shown on Figure 3 in Appendix A.

Groundwater concentration levels in TH-1 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc above the Primary Drinking Water Maximum Contaminant Levels (MCLs). Groundwater concentration levels in TH-2 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, and Trichloroethylene above MCLs. No groundwater sample was collected from TH-3 since there was no water in the boring. Groundwater concentration levels in TH-4 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, and Lead above MCLs.

The concentrations that are above the MCLs are highest in the upgradient sample (TH-1). The upgradient TH-1 sample did not have any detected organics, however, TH-2 and TH-4 have some elevated organic parameters. The organic parameters are low in concentration except for the Trichloroethylene in TH-2. Trichloroethylene in TH-2 is 0.202 mg/L and is above the MCL of 0.005 mg/L.

The groundwater is encountered at the base of the alluvial unit which has a low yield. The analytical data of groundwater samples from the three (3) borings show metals impact (Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead and Mercury) that exceed the Maximum Contaminant Levels for Primary Drinking Waters Standards. However, the metals impact is not related to the Site since the upgradient boring (TH-1) has the highest metals concentrations. TH-2 groundwater sample detected Trichloroethylene (TCE) at 0.202 mg/L

concentration and TH-4 at 0.001 mg/L. TCE was not detected in TH-1 (upgradient) groundwater sample. Therefore, TCE contamination maybe related to the subject facility. The Trichloroethylene MCL is 0.005 mg/L and TH-2 groundwater exceeded this level.

Metals and a few organic parameters were detected in the soil samples, however the detected parameters were in relatively low concentrations. The S-Drum sample showed elevated concentrations levels compared to the other two soil samples for Copper, Selenium, and Zinc. The detected parameter concentration levels were compared to the Risk-Based Screening Levels for Industrial Sites (DAF=1) and none of the detected parameters exceeded the Risk-Based Screening Levels.

The Groundwater Analysis Summary (Table 2) and the Soil Analysis Summary (Table 3) are provided in Appendix C.

The analytical data shows impact to the groundwater at the site from either previous on-site activities or the historical adjacent properties, located north of the site.

A.4. PROJECT/TASK DESCRIPTION AND SCHEDULE

Based on historical Site operations and utilization, historical adjacent property land uses (e.g. light industrial activities), previous studies, and site observations, the following tasks are proposed for gathering the necessary information and field data required for the preparation of the Site Characterization Report.

TASK 1: INSTALL MONITORING WELLS

Eight (8) monitoring wells will be completed to determine the groundwater flow direction. The proposed monitoring well locations (Figure 4) are provided in Attachment A.

TASK 2: EVALUATE SUBSURFACE SOIL

The subsurface material from the split barrel will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID reading (over 10) will be sampled and analyzed for volatile organics (Method 8260). The zones with high PID readings (over 10) will be sampled (grab). If the PID readings are below 10, no samples will be collected in that boring.

TASK 3: COLLECT GROUNDWATER SAMPLES

Groundwater samples will be collected from each of the eight (8) monitoring wells and sampled for pH, Conductivity, Priority Metals, Chloride, Dissolved Oxygen, Total Dissolved Solids (TDS), and volatiles (Method 8260). If the detected metals are above Maximum Concentration Levels (MCLs), the water samples will be filtered and reanalyzed to determine if the sediments impacted the water.

TASK 4: INVESTIGATE NEARBY FACILITIES

Since the upgradient water samples indicated elevated concentrations for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc, the nearby industrial facilities will be evaluated and investigated for reported violations and permits. In addition, potential sources of off-site source contamination will be investigated.

TASK 5: PLUG MONITORING WELLS

Once the on-site environmental contamination issues are resolved, the eight (8) monitoring wells will be plugged in accordance with the Oklahoma Water Resources Board (OWRB).

TASK 6: PREPARATION OF SITE CHARACTERIZATION REPORT

Prepare and finalize the Site Characterization Report.

The Site Characterization Report at a minimum will include the following components:

1. Review of available information and document findings, including the current and previous usage of the Site.

2. A physical characteristic description of the site, including geology, soil, hydrogeology, surface hydrology, land use, meteorology, at a minimum.

3. Photographs of sample locations and sampling activities will be provided in the report.

4. Detailed description of the involved contaminants, sources, release characteristics, and contaminated media.

5. Procedures used to determine the nature and extent of the contaminants, present the sampling results and collected field data, and evaluate the transport pathways.

6. Using the collected field data, determine the areas where the contamination exists above "screening levels" set by the US EPA Regional Screening Levels and determine the site specific risk-based clean-up levels using ODEQ approved methodology.

7. Document the possibility of contamination movement in pathways that would result in exposure to humans and to surrounding environments at levels that exceed EPA screening levels or Maximum Contaminant Levels (MCLs).

8. Identify remedial options and additional field data collection needs, if any, to further study the identified remedial options.

9. Develop a sampling plan to collect additional data, if needed, for preparing the Removal Action Design Report and conduct the additional sampling following ODEQ approval.

10. All records will be maintained for five (5) years.

In order to successfully accomplish the objectives set forth, the following specific sampling will be completed to address the identified potential environmental concerns:

A.4.1. SUBSURFACE SOIL INVESTIGATION:

The subsurface material from the split barrel will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID reading (over 10) will be sampled and analyzed for volatile organics (Method 8260). The zones with high PID readings (over 10) will be sampled (grab). If the PID readings are below 10, no samples will be collected in that boring.

A ratio of ten (10) percent duplicates will be used for soils samples.

A.4.2. GROUNDWATER INVESTIGATION:

Eight (8) monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8) will be drilled and completed to determine the impact to the groundwater underlying the Site. Groundwater samples will be analyzed for pH, Conductivity, Priority Metals, Chloride, Dissolved Oxygen, Total Dissolved Solids (TDS), and volatiles (Method 8260). If the detected metals are above Maximum Concentration Levels (MCLs), the water samples will be filtered and reanalyzed to determine if the sediments impacted the water.

The monitoring well locations are shown in Figure 4, provided in Appendix A. These monitoring wells will be drilled to the uppermost aquifer, sampled with a split barrel, and visually inspected to a total depth of 30 feet. The subsurface material from the split barrel will be described by a field geologist. In addition, all soils samples will be screened using a Photo Ionization Detector (PID). The soil zones with a high PID (over 10) reading will be sampled and analyzed for volatile organics (Method 8260).

The eight (8) borings on the Site will be completed as monitoring wells and utilized for groundwater sampling. The data from these monitoring wells will be utilized to define the uppermost aquifer characteristics.

A.4.3. SAMPLING METHODS

The samples will be collected and analyzed using the appropriate EPA SW846 methods listed below.

- EPA Method 8260 (Volatile Organics)
- EPA Method 6010 (Priority Metals)
- Standard Methods 4500-Cl C (Chloride)
- Standard Methods 4500-O G (Dissolved Oxygen)

- ❖ Standard Methods 2540 C (Total Dissolved Solids – TDS)
- ❖ EPA Method SW 9040 B (pH)
- ❖ EPA Method SW 9050 A (Conductivity)

A.5. QUALITY OBJECTIVES AND CRITERIA FOR MEASUREMENT DATA

The objective of field sampling and laboratory analytical procedures is to obtain defensible data using the data quality objective (DQO) process for data collection. Data quality requirements for precision, accuracy, representativeness, comparability and completeness are defined for the site and must be achieved in order to satisfy DQOs.

Action levels for decision making will be utilized from the US EPA Regional Screening Levels for Industrial Properties and the US EPA Primary Drinking Water Standards.

Quality objectives in the field are to collect representative samples of groundwater and assure no cross reference in the process. To achieve these objectives in the field, sampling personnel will consist of experienced professionals and will follow the Sampling and Analysis Plan procedures. Sampling personnel will note specific attention to decontamination processes for field equipment and drilling equipment. If sampling equipment, water level measurement devices, or field screening equipment is reused in the field, the decontamination procedures will be conducted in accordance with the relevant SOP and rinsate samples will be collected for analysis. During field activities, field duplicate and split samples will be collected approximately ten (10) percent of the total samples. Daily trip blanks, equipment blanks, and field blanks will be collected.

Quality objectives for laboratory measurements are to obtain data meeting detection limits as required by the US EPA SW-846 for each specific test method, conduct matrix spike/matrix spike duplicates, recovery ranges, method blanks, and other laboratory standard quality requirements.

If the concentration levels detected in the analytical results are higher than the action levels, additional investigation maybe necessary.

If duplicate/spilt sample analytical results vary more than 15 percent, then the laboratory matrix spike and recovery ranges will be evaluate to determine any relation. Otherwise, the duplicate/spilt samples will be retested and re-evaluated.

The parameters to be analyzed are further outlined in the Sampling and Analysis Plan, located in Appendix D.

The Sampling and Analysis Plan also provides requirements for field sampling and testing. Samples will be collected in the field according to the Sampling and Analysis Plan, which provides the details for decontamination of sampling equipment, sample packaging and preservation, transportation, sample numbering, chain-of-custody and documentation requirements. Samples will be collected in the field and sent to laboratories certified to perform the required analyses. Trip blank and duplicate samples will be used to develop estimates of the accuracy and precision of the analytical data. Field surveillance of sampling, field measurements and chain-of-custody procedures will be used to verify that proper techniques are being followed.

A.6. SPECIAL TRAINING REQUIREMENT/CERTIFICATIONS

All A & M Engineering field personnel have completed the 40-hour level training for Hazardous Waste Operators (HAZWOPER). A & M Engineering personnel involved in supervisory positions have received the additional 8-hour supervisor's training. Annual 8-hour refresher courses are taught in-house for A & M Engineering personnel. The drilling subcontractor (Mohawk Drilling) is certified by the Oklahoma Water Resources Board.

Appendix E contains a copy of the OWRB Drilling/Pump Contractors license for Mohawk Drilling. Documentation of all employees training including that for Mohawk Drilling is maintained at A & M Engineering's corporate office.

A.7. DOCUMENTATION AND RECORDS

Records generated as a result of analytical sampling activities are considered Quality Assurance Records and will be processed in accordance with the requirements of this QAPP. Documents such as Chain-of-Custody Records, analytical testing results and other required laboratory deliverables are essential documents necessary to ensure the integrity and defensibility of data used to make decisions in the remediation process. Furthermore, Quality Assurance Records provide the record of events that have occurred for all aspects of the site investigation work and their adequate generation, review, protection and submittal is essential to the success of the project.

Sample documentation is described in Section B.2, Sampling Method Requirements. Copies of all field generated data including daily logs, sampling logs, and all other relevant forms and documentations will be maintained by the PM.

As the project progresses and if need is warranted, the PQAM will update this QAPP to ensure that it contains the necessary information required to cover new findings or procedures for the successful completion of this project. Following any revision change, identified in the document control format, copies of the updated QAPP will be distributed to the QA officers indicated on the distribution list. It shall be the responsibility of the QA officers to distribute the QAPP to the project managers and any representatives of other groups involved.

At the conclusion of the project, the PM will summarize the work accomplished and submit a final report to the ODEQ in hard copy form, and in electronic form. Any changes to the Work Plan and/or the QAPP will be recorded in the field logbook and in the final report to the data user(s) and regulator.

Records pertaining to this project and its related work tasks, including all field generated data, laboratory analytical data, etc., will be maintained in the A & M Engineering project archives for a minimum of five (5) years following the conclusion of work performed.

B. MEASUREMENT/DATA ACQUISITION

B.1. SAMPLING PROCESS DESIGN

SOIL SAMPLING

Eight (8) Testholes will be drilled using a standard type drill rig with hollow stem augers. The drilling auger will be used for boring the Testholes and accessing the subsurface materials for sampling. Each Testhole will be drilled to a maximum depth of thirty (30) feet. All samples from the borings will be scanned using a Photo Ionization Detector (PID). The soil zones with a high PID (over 10) reading will be sampled and analyzed for volatile organics (Method 8260). These soil samples will consist of a grab sample. The Testholes will be completed in the general areas of concern based upon visual site characteristics and accessibility. Sampling of the soil materials will be conducted using the following procedure:

- The sampling technician(s) will don clean PPE as specified (gloves). The sampling equipment (stainless steel spoons, wash bowls, etc.) will be thoroughly cleaned with Alconox/distilled water mixture and rinsed with distilled water prior to the first sample collection. The drill rig operators will don leather gloves and the drill auger will be thoroughly cleaned and rinsed with steam cleaner between each Testhole location. All decontamination and rinsate water will be collected, drummed, sampled and properly disposed. Each five (5) foot split barrel will be inspected by a geologist and screened with the PID. The zones with high PID readings (over 10) will be sampled (grab). The samples will be put into laboratory prepared sample containers. The soil samples will be analyzed for volatile organics (Method 8260).

- Each soil sample will be sniffed using a Photo Ionization Detector (PID). If there is an elevated or high PID reading (over 10), a grab sample will be collected at that depth. Any samples collected for volatile organics will consist of a grab sample.

- Soil samples will only be collected if there is a high or elevated PID reading (over 10). The soil samples from the specific depths in that Testhole will consist of a grab sample unique to that Testhole location for *VOCs* analysis. The grab samples will be split two (2) ways with one split sent to the analytical laboratory while the other split will be retained for archive in a refrigerator at the A & M Engineering office. The sample splits will be placed in separate identically labeled glass 500-ml capacity jars provided by the lab with one set placed in coolers for shipment to the laboratory and one set of split samples maintained in archive. The sampling team will maintain a Sampling Log for future reference and sampling activity, including the PID readings, will be documented in the Field Notebook.

- A custody seal will be placed over the lid of the sample container. Sealed samples will be placed in a suitable holder to prevent breakage and put in an ice chest packed with sufficient ice to ensure sample temperature is maintained below four (4) degrees Centigrade for transport to the analytical laboratory. A chain of custody form will accompany all samples to the lab.

- After the Testhole has been properly sampled, team members will clean the equipment, stainless steel bowl and mixing tools with Alconox and distilled water. Drill augers will be thoroughly cleaned and rinsed with a steam cleaner. Team members will don clean latex gloves prior to obtaining the next sample.

- The above sampling sequence will be followed for each of the remaining Testhole locations.

- Decontamination of sampling equipment will be conducted at the conclusion of the sampling event as described in a subsequent section of this document.

UPPERMOST GROUNDWATER SAMPLING

Uppermost groundwater samples will be collected from eight (8) monitoring wells used for the acquisition of the soil samples using the following protocol:

- The static water level and total Testhole depth will be measured with an electric metering tape (decontaminated between locations) and recorded in the field notebook. The water volume of the Testhole will be calculated, and the Testhole will be purged until either: a minimum of three volumes have been removed, the Testhole is evacuated, or the discharged water indicates stabilization of temperature, conductivity, and pH. Initial subjective analysis of the water (odor, color, appearance, etc.) will be recorded in the sampling log.

- Prior to sampling, the Testhole will be allowed to recover to approximately eighty percent of its initial volume (if possible in the allotted time).

- The sampling technician(s) will don clean PPE as specified. Water samples will be collected with individually wrapped, disposable bailers, eliminating the need for initial decontamination of the sampling device. Sample labels will be completed with an indelible marker and affixed to the sample containers prior to the collection of water samples.

- The bailer will be slowly lowered into the water until water resistance is "felt." The bailer will continue to be lowered further until approximately ¾ of bailer length is submerged.

- The bailer will be gently raised out of the water and the subjective appearance of the sample (i.e. floating debris, free product (LNAPL, DNAPL), sheen, color, clarity, etc.) will be noted in the sampling log.

- A water sample will be slowly decanted into the appropriately labeled sample vial, provided by the lab, via the fluid extractor located at the bottom of the bailer. If sediments prevent flow through the extractor, the liquid will be carefully poured into sample vial from the top of bailer with minimal agitation.

- The sample container, which is provided by the lab and supplied with the appropriate preservative, will then be inspected to assure that the container is filled to the point where the meniscus is formed above the lip of the sample container. A Teflon-lined cap will be quickly placed onto the sample container and tightened securely. The sample container will be checked to ensure no air bubbles are present. A custody seal will be placed over the lid of the sample container. The sample jars for organic testing will be collected first, then the metals, and then inorganics.

- Sealed samples will be placed in a suitable holder to prevent breakage and put in an ice chest packed with sufficient ice to ensure sample temperature is maintained below four (4) degrees Centigrade for transport to analytical laboratory.

The samples will be collected and analyzed using the appropriate EPA SW846 methods listed below.

- EPA Method 8260 (Volatile Organics)
- EPA Method 6010 (Priority Metals)
- Standard Methods 4500-Cl C (Chloride)
- Standard Methods 4500-O G (Dissolved Oxygen)
- Standard Methods 2540 C (Total Dissolved Solids – TDS)
- EPA Method SW 9040 B (pH)
- EPA Method SW 9050 A (Conductivity)

B.2. SAMPLING METHODS REQUIREMENTS

This section will describe the Standard Operating Procedures (SOP's) utilized for sampling during the site investigation activities including quality control, decontamination, packaging, and transport and sample custody. Sample documentation is described and examples of types of documentation forms are provided.

B.2.1. RESPONSIBILITIES

PROJECT QUALITY ASSURANCE MANAGER (PQAM)

The PQAM is responsible for the performance of preparatory, initial and follow-up inspections of analytical sampling activities to ensure compliance with the requirements of this procedure and the Quality Assurance Project Plan.

SAMPLE TECHNICIAN

The Sample Technician is responsible for the physical collection of samples in accordance with the requirements of this procedure, and for ensuring proper chain-of-custody of collected samples.

B.2.2. DEFINITIONS

B.2.2.1. SAMPLING EVENT

A sampling event is considered to be from the time the sampling personnel arrive at the site until the personnel leave for more than a day. An example of two sampling events would occur if sampling personnel went to a site for three weeks, collected surface samples, drilled borings and put groundwater wells in place. During this visit, soil and water samples were collected. The sampling crew then left the site for two months, thus concluding the first sampling event. The crew

later returned to collect another set of samples over a three-day period. The second visit would constitute the second sampling event.

B.2.2.2. TRIP BLANKS

Trip Blanks are QC samples, which originate from analyte-free water taken from the laboratory to the sampling site and returned to the laboratory with the volatile organic (VOA) samples. One trip blank will accompany each cooler to be shipped to the laboratory containing VOAs. Trip blanks are only analyzed for VOAs.

B.2.2.3. FIELD DUPLICATES/SPLITS

Field Duplicates (or splits) for soil samples will be collected in the field and prepared by homogenizing the soil sample and splitting into two samples. All samples except those designated for VOA analysis will be homogenized and split. For VOA analysis, select segments of soil will be taken from the Testhole cuttings and placed into 40 ml glass vials. Testhole cuttings may be sealed and shipped to the laboratory for subsampling if the project deems this appropriate. The field duplicates for water samples will be collected simultaneously. Field duplicates will be collected at a frequency of 10% per sample matrix. All the duplicates should be sent to the primary laboratory responsible for analysis. The same samples used for field duplicates shall be split by the laboratory and be used as the laboratory duplicate or matrix spike and a matrix spike duplicated (MS/MSD). This means that for the duplicate sample, there will be analyses of the normal sample, the field duplicate and the laboratory MS/MSD. A separate MS/MSD will not be collected in the field, but will be obtained from the field duplicate by splitting the sample in the laboratory.

B.2.2.4. EQUIPMENT BLANK

Equipment Blanks are a type of QC sample and are the final analyte-free water rinse collected after equipment decontamination and during a sampling event. Equipment rinsate will be taken once for each sample medium. If analytes pertinent to the project are found in the rinsate, the field decontamination procedure will be evaluated and improved. The rinsates are analyzed for the same parameters as the related samples.

B.2.2.5. FIELD BLANK

Field Blanks are a type of QC sample that consists of the source water used in decontamination and steam cleaning. At a minimum, one field blank from each event must be collected and analyzed for the same parameters as the related samples.

B.2.2.6. DECONTAMINATION

Equipment that may come in contact with potentially contaminated soil, sediment, waste, or water will be decontaminated prior to and after use. Decontamination consists of steam cleaning (high pressure, hot water washing), phosphate-free detergent (Alconox™) wash, and distilled, deionized (DI), or clean water rinse, as appropriate.

Sampling and drilling equipment will be decontaminated utilizing EPA guidelines. Summary decontamination steps are as follows:

B.2.3. WATER SAMPLING EQUIPMENT

Prior to collecting a water sample, non-dedicated sampling equipment must be decontaminated according to the following procedure.

- *EQUIPMENT:* Remove all visible contamination with distilled water and an Alconox solution. If this is not effective, use a clean soft cloth or sponge or use pressurized water to clean equipment. If required, a brush may be used to clean stainless steel or metal equipment but not plastic equipment, which may be scratched by the brush. After cleaning equipment, the equipment will be triple rinsed with distilled water.

- *HOSES:* Clean outside of hoses with high pressure hot water. Pump three (3) volumes of distilled water through hoses. If possible, use pressurized distilled water.

- *PROBE TIPS AND METERS:* Triple rinse with distilled water.

- Rinse all sample collection equipment with clean tap water followed by distilled water. Store equipment in clean containers.

- The water stabilization process for groundwater sampling and data collection will be documented in the field log and in the groundwater SOP.

- In order to prevent contamination to the sample bailer, disposable plastic sheeting will be laid down around the wells and when the bailer is pulled out of the well, the bailer will fall on the clean plastic or will never touch the ground.

B.2.4. WASTE, SOIL, & SEDIMENT SAMPLING EQUIPMENT

Equipment used to collect samples for chemical analysis requires thorough decontamination, as described below:

- Wash equipment (augers, split barrels, utensils, etc.) with distilled water and an Alconox™ solution. **If visible contamination remains, steam clean the equipment.**
- A solvent rinse (Isopropanol) may be required to remove organic contamination that is not removed by washing and/or steam cleaning.
- Rinse with clean tap water.
- Triple rinse all equipment with distilled water and allow to air dry.
- Collect sample according to the specific procedure for the sample type.
- Rinse all sample collection equipment with clean tap water followed by distilled water. Store equipment in clean containers.

B.2.5. DRILLING EQUIPMENT

Steam clean downhole equipment on drill rigs such as augers, drill rods and drill bits prior to and/or after use at a designated wash pad. Remove visible soil and grease.

B.2.6. WATER SAMPLING EQUIPMENT

Wash steel tapes, well sounders, transducers and water quality probes in a phosphate-free detergent solution and rinse in distilled or DI water or wipe clean after each use. Clean the portion of these devices inserted into wells with a mild soap solution.

B.2.7. QUALITY ASSURANCE SAMPLE CODES

F – Field Blank

T – Trip Blank

D – Duplicate

The sample code will be followed by a four (4)-digit date, which the first two (2) digits indicate the month and the last two (2) digits indicate the day of the month (Example: August 14th would be written as 0814).

B.2.8. SAMPLE PACKAGING AND TRANSPORT

Each sample will be packaged and transported appropriately as described in the following protocol:

- Collect samples in appropriate containers already supplied with the required preservatives by the lab.

- Print the following information clearly in waterproof ink on the label for each sample container: the preservative that has been added to each sample container, the sample number, the project number, the initials of the sample collector, and the date and time the sample was collected. For water samples, package sets together if appropriate. Each VOC set should be placed together in a labeled Ziploc plastic bag.

- Fill out field sample log and chain-of-custody record.

- Separate and place samples in coolers according to laboratory destination and according to expected concentrations (e.g., lowest concentration samples together based in PID readings). Each cooler must weigh less than 70 pounds including ice. Package samples well to protect from shipping damage.

- Place samples on ice, as necessary.

- Seal the top two copies of each chain-of-custody form inside a zip lock bag. Use strapping tape to attach the packet to the inside of the cooler lid. Samples will always be accompanied by a chain-of-custody record. When transferring samples, both the individuals relinquishing and receiving the samples will sign and date the chain-of-custody record. Samples will be packaged properly for shipment, including isolation of samples thought to have high chemical concentrations and dispatched to the appropriate laboratory for analysis.

- Secure cooler with custody seal.

- Label coolers correctly, placing "Fragile" and "This-End-Up" labels on coolers, as appropriate.

- Transport the coolers to the designated analytical laboratories via A & M Engineering Team personnel or designated couriers. The planned mode of sample transport is to use couriers employed by the laboratory. Alternatively, commercial couriers, A & M Engineering Team couriers, or

overnight shipment may be used. Specific transportation arrangements are dependent on the location of the Delivery Order Site and the analytical laboratories; specific procedures will be described in site-specific planning documents.

B.2.9. SAMPLE CUSTODY

Sample custody procedures will be followed through sample collections, transfer, analysis and ultimate disposal. The purpose of these procedures is to assure that the integrity of samples is maintained during their collection, transportation and storage prior to analysis and sample material is properly disposed after analysis. Sample custody begins with the shipment of the empty sample containers. Sample containers are shipped from the laboratory in sealed coolers or cartons with appropriate seals and custody documentation. Sample quantities, types and locations will be determined before the actual field work commences. The Sample Technician will be responsible for the care and custody of the samples until properly transferred. Custody transfer will be documented on the Chain-of-Custody Form. An example of the chain of custody form (Form 1) used by A & M Engineering is included in the Appendix F.

At the chemical laboratory, a designated sample custodian will accept custody of the shipped samples and verify that the information on the sample label matches that on the chain-of-custody form(s). Pertinent information as to sample condition, shipment, pickup, and courier will also be checked on the chain-of-custody form(s). In addition, a project receipt checklist (e.g. Cooler Receipt Form) will also be completed by the custodian. Information on the date and time of receipt, method of shipment, and sample condition will be recorded on this form. The custodian will then enter the appropriate data into the laboratory sample tracking system. The laboratory custodian will use the sample number on the sample label as well as assign a unique laboratory

number to each sample. The custodian will then transfer the sample(s) to the proper analyst(s) or store the sample(s) in the appropriate secure area.

Laboratory personnel will be responsible for the care and custody of samples from the time they are received and are responsible for sample disposal. Data sheets and laboratory records will be retained as part of the permanent documentation for a period of at least five (5) years.

Samples and extracts are retained by the analytical laboratory for up to 30 days after the data are reported by the laboratory. Unless notified otherwise by the site managers, excess or unused samples are disposed by the laboratory in a manner consistent with appropriate government regulations.

B.2.10. SAMPLE DOCUMENTATION

Each sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following identification documents will be used during the investigation:

- Sample Labels
- Field Sampling Logs
- Field Logs
- Chain-of-Custody Forms

B.2.11. SAMPLE LABELS

Sample labels are necessary to prevent misidentification of samples. Preprinted sample labels will be provided. An example of A & M Engineering's Sample label (Form 2) is included in Appendix F of this report. Where necessary, the label will be protected from water and solvents with clear label-protection tape. Each label contains the following information:

- Project name
- Initials of collector
- Date and time of collection
- Place of collection (job site)
- Sample number
- Well/boring number
- Depth
- Type sample (composite/grab)
- Preservative, if any

B.2.12. FIELD SAMPLE LOGS

A Field Sampling Log will be used during each sampling event by the Sample Technician to record activities as they relate to the progress of the investigation. The field sampling logs will be retained in the investigation files according to project number for that task.

An example of a Field Sampling Log (Form 3) is provided Appendix F. Entries in the field sampling log will include at least the following information:

- Project name and number
- Site location

- Name of sampler and date
- Names of personnel onsite
- Sample locations
- Volumes of samples collected
- Sample identification numbers
- Field observations and comments

B.2.13. FIELD LOGS

A Field Log will be used daily by the Sample Technician to record activities as they relate to the progress of the investigation. Form 4 is an example of a Daily Field Log form used by A & M Engineering and is provided in Appendix F. The field logs will be retained in the investigation files according to project number for that task. Entries in the field log will include at least the following information:

- Project name
- Project number
- Name of author and date
- Chronology and location of activities
- Names and affiliations of personnel onsite
- Instrument calibration details and identification number
- Decontamination procedures
- Sample collection or measurement methods
- Number of samples collected
- Sample identification numbers
- Sample distribution (laboratory)
- Field observations and comments
- Any modifications to or deviation from the site specific work plan

B.2.14. CHAIN-OF-CUSTODY RECORD

A chain-of-custody record will be filled out for and will accompany every sample to the analytical laboratory to establish the documentation necessary to track sample possession from the time of collection. A copy of the chain-of-custody form will be retained in the investigation files according to project number. The record will contain the following information:

- Sample number or identification
- Names of samplers
- Signature of collector, sampler or recorder
- Location of project
- Project manager's name
- Date of collection
- Place of collection (site location)
- Sample type
- Analyses requested
- Inclusive dates of possession
- Signature of person relinquishing or receiving sample
- Laboratory sample number, where applicable
- Date and time of sample receipt
- Method of shipment and courier name

B.2.15. CORRECTIONS TO SAMPLE DOCUMENTATION

Original data recorded in field investigation daily reports, chain-of-custody records, and other forms will be written in waterproof ink. None of these documents will be altered, destroyed or discarded, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made on a document compiled by one individual, that individual will make the necessary correction by crossing a single line through the error, entering the correct information and initialing and dating the change. The erroneous information will not be obliterated. Any subsequent error(s) discovered on a document will be corrected by the person discovering the error. All corrections will be initialed and dated. Site-specific documentation will be reviewed by site managers on a daily basis.

B.2.16. TRANSFER OF FIELD DOCUMENTATION

During site-specific field operations, field investigation daily logs will be faxed to Project Manager on a daily basis. In the absence of a facsimile, field geologists and/or engineers will be in contact with Project Managers, or, at a minimum, via mobile telephones. During drilling associated with the installation of monitoring wells, the Field Geologist will review boring logs prior to constructing the well.

At the end of each week of field operations, all field documentation will be copied and hard copies sent to the Project Manager for review. A copy of this documentation will also be kept at the on-site field office for future reference, if necessary. The original field documents will be submitted to the Project Manager for preparation of final report.

B.3. ANALYTICAL METHODS

Analytical methods, preservatives, holding times, and internal laboratory QA/QC protocols are described in Appendix G.

B.4. QUALITY CONTROL

Quality control measures during sample collection activities for this project will include the use of Trip Blanks and Duplicates.

B.5. INSTRUMENT/EQUIPMENT TESTING, INSPECTION, AND MAINTENANCE

A pH meter, PID, and electric water level instrument will be used for this project in the field. Inspection, testing, and maintenance protocols for Laboratory equipment can be found in Appendix G.

B.6. INSTRUMENT/EQUIPMENT CALIBRATION AND FREQUENCY

Field measurement instruments or equipment used for this project in the field will be calibrated per the manufacturer requirements. Calibration protocols for Laboratory equipment can be found in Appendix G.

B.7. INSPECTION/ACCEPTANCE OF SUPPLIES AND CONSUMABLES

Sample containers will be provided by the laboratory contracted to perform analytical services. The PQAM will inspect sample containers for integrity, correct volume for analytical parameter, and appropriate preservative, if necessary, prior to their use in the field. The sample technician will inspect sample containers in the field. Any sample container found to be inadequate will not be used for sample collection and storage. Sample containers are always ordered in excess of the required number to ensure that an adequate number of sample containers are available in the field for sample collection and storage.

The protocols for inspection and acceptance of laboratory supplies and consumables can be found in Appendix G.

B.8. NON-DIRECT MEASUREMENTS

A search for non-direct measurements will be conducted for water wells within a two-mile radius of the Site. The Oklahoma Water Resources Board online database will be utilized for the well information.

B.9. DATA MANAGEMENT

Analytical data from laboratories is sent directly to the PQAM, who reviews the data to verify that it meets the required accuracy and precision of the data quality objectives as indicated by the various quality control measures. Following review and approval, the data is sent to the PM for analysis and incorporation into a final report to the ODEQ, who, for this project, is the decision maker and end user of the data. The analytical data is compiled into tabular form in electronic format during the data analysis by the PM. The software used to tabulate the analytical data is the Microsoft Excel program operating in a XP networking environment.

C. ASSESSMENT/OVERSIGHT

C.1. PROJECT QUALITY ASSURANCE MANAGER (PQAM)

All project activities will be monitored by PQAM to ensure that they are consistent with the procedures described in the Work Plan and are capable of providing data of sufficient quality to achieve the project objectives. PQAM is responsible for the following activities:

- Implement Quality Assurance Project Plan (QAPP)
- Maintain communication with Project Manager, Project Supervisor, and Sampling Personnel to ensure that all field activities are performed in accordance with the Work Plan and achieve the Quality Standards required
- Conduct field audits during remediation and sampling activities to determine if proper procedures are being followed
- Review field and analytical data for completeness and accuracy
- Report on a regular and timely basis inspection/test results
- Maintain a Quality Assurance file of all data and other project records

C.2. LABORATORY QA/QC OFFICER

Green Country Testing of Tulsa, Oklahoma will analyze environmental samples and laboratory QA/QC will be the responsibility of the laboratory QA/QC Officer (Ms. Star Yuan). Also, the Laboratory Manager (Mr. Brian Duzan) is responsible for QA/QC requirements. A Quality Assurance Program Plan for Green Country Testing is included as Appendix G. The Laboratory QA/QC Officers will report to the Project Quality Assurance Manager.

D. DATA VALIDATION AND USABILITY

D.1. DATA VALIDATION

This Quality Execution Procedure establishes the requirements and responsibilities associated with identifying, reporting, controlling, dispositioning and correcting deviations identified in the execution of work.

D.1.1. RESPONSIBILITIES

PROJECT QUALITY ASSURANCE MANAGER (PQAM)

The PQAM is responsible for ensuring that a system of identification and resolution of deficient items is established for execution of the work. The PQAM is also responsible for reporting of adverse trends and programmatic problems to the Project Manager.

PROJECT MANAGER (PM)

The Project Manager is responsible for coordinating the development of dispositions to those deviations which require an engineering evaluation to determine the appropriate corrective action and for resolving items appearing on the Rework Items List.

PROJECT SUPERVISOR

Project Supervisor is responsible for assuring that identified deviations are controlled and corrected. If a Nonconformance Report (NCR) is issued, the corrective action shall conform to the disposition. The Nonconformance Report could be issued by the PQAM, PM, or Project Supervisor, however the report has to be approved by the PQAM.

SUBCONTRACTOR

For work performed by subcontractors, the subcontractors are responsible for assuring that deviations are identified, controlled, documented, reported, corrected and re-

inspected. If a Nonconformance Report (NCR) is issued, the corrective action shall conform to the disposition.

D.1.2. DEFINITIONS

DEVIATION

A Deviation is any departure from established requirements. Deviations may result in defects that may be corrected through rework or that may result in non-conformances that require engineering evaluation in order to be resolved.

NONCONFORMANCE

A Nonconformance is deviation of such a nature that its resolution involves the coordination of multiple organizations or requires a formal engineering review. Generally, any deviation that cannot be resolved by performance of rework is considered nonconformance.

D.1.3. PROCEDURE

IDENTIFICATION OF DEVIATIONS

Deviations are usually identified by inspectors (PQAM, PM, or Project Supervisor) during the conduct of routine inspections or tests. However, deviations may be identified at any time by anyone involved with the work and reported to the applicable inspector or to the PQAM.

When deviations are identified, they should be tagged or otherwise marked, if feasible, by the inspector to both prevent inadvertent additional work that might hinder correction and to assist in locating the item for rework.

Many deviations involve situations where the condition can be corrected by re-performing operations that have already been specified without obtaining additional information or approvals. Examples include: insufficient depth of soil sample collection; incorrect sample container used for sample storage, etc.

DOCUMENTATION OF DEVIATIONS

Deviations or items requiring rework shall be identified on the Daily Field Log that is completed daily.

Items requiring rework shall be entered on the Rework Items List. Deficient items that can be resolved by reworking by the end of the shift need not be recorded on the Rework Items List.

A copy of the Rework Items List shall be provided to the Project Manager or Site Supervisor who is responsible for correction of the deficient item. A copy of the Rework Items List shall also be submitted to the PQAM, as the lists are generated.

The PQAM shall maintain a current status of the resolution of items on the Rework Items List and update the list as deficient items are reworked.

When all deviations on a Rework Items List are closed, the list shall be maintained for record purposes.

REVIEW BY PROJECT QUALITY ASSURANCE MANAGER

Rework Item Lists showing open deviations shall be reviewed by the PQAM to ensure the identified deviations are tracked and corrective action is taken for resolution.

D.2. DATA USABILITY

Data usability will be determined by the PQAM using the following criteria:

- Documentation indicating that all deviations on the Rework Item List have been closed through corrective action.

- Documentation of field sampling procedures and investigation activities as prescribed in this QAPP Plan.

- Internal analytical laboratory QA/QC documentation provided by contracted lab.

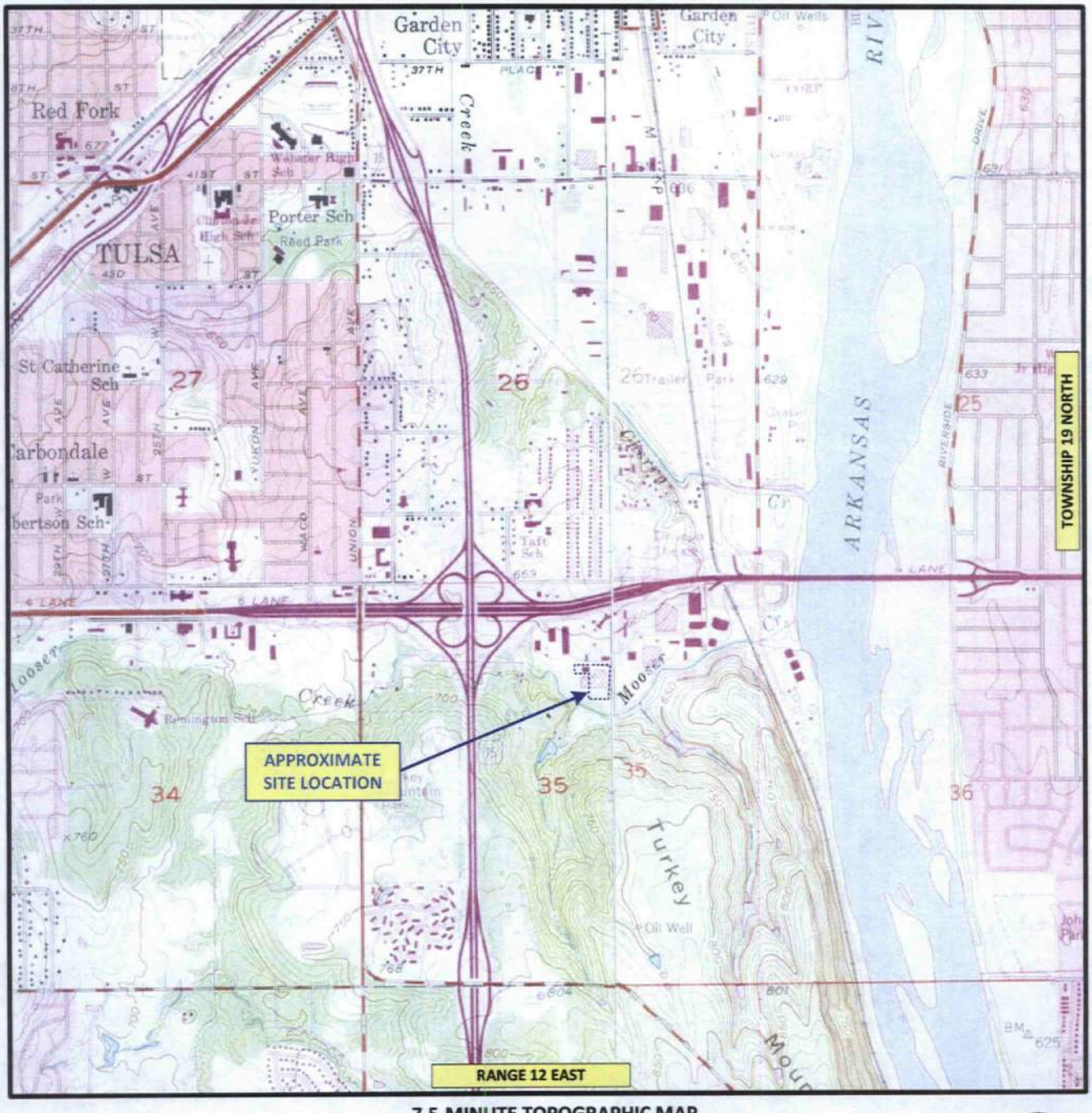
- Preventative maintenance records and calibration logs for all field measurement devices.

Review of the above documentation and all data accumulated during the duration of the project will be conducted by the PQAM. If field sampling techniques, site inspections, laboratory analytical procedures, and data handling methods have been followed as described in this QAPP and its supporting documents, then the data will be deemed acceptable. Any changes or deviations from the approved work plan will be documented and corrective action will be taken to assure that all data presented is valid, and of solid, scientifically defensible quality.

The deviation expected for this project is the field sampling locations, which could be located within 15 feet of the original proposed location. Trip blank, equipment blank, or duplicate/spilt sample variations or detections will be evaluated and deducted from the data.

APPENDIX A

FIGURES



7.5-MINUTE TOPOGRAPHIC MAP
SAPULPA NORTH AND JENKS QUADRANGLES – TULSA COUNTY, OKLAHOMA
LATITUDE: 36° 5' 14.2" LONGITUDE: 96° 0' 7.7"

N

SCALE
0 0.25 0.50 0.75 1 mile

****CONTOUR INTERVALS ARE AT 10' INTERVALS***

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TOPOGRAPHIC MAP

LIMCO AIREPAIR
5304 SOUTH LAWTON AVENUE - TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 1
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

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LEGEND

SITE BOUNDARY

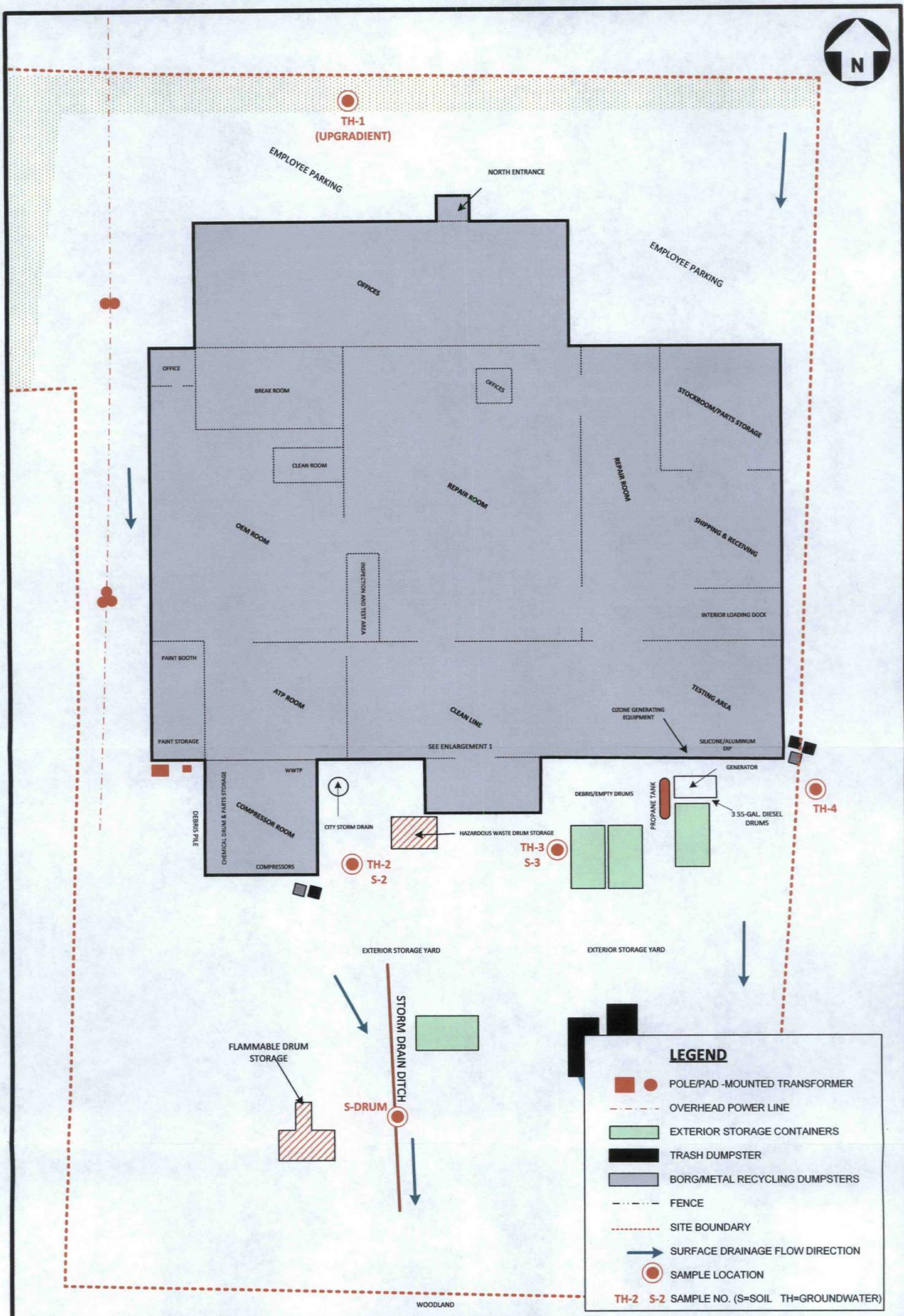
SURFACE DRAINAGE FLOW DIRECTION

SITE LAYOUT

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 2
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003



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PREVIOUS SAMPLE LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 3
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

N

MW-1

MW-2

MW-3

MW-4

MW-5

MW-6

MW-7

EMPLOYEE PARKING

NORTH ENTRANCE

EMPLOYEE PARKING

OFFICES

OFFICE

BREAK ROOM

OFFICES

STOCKROOM/PARTS STORAGE

CLEAN ROOM

REPAIR ROOM

REPAIR ROOM

OEM ROOM

SHIPPING & RECEIVING

INSPECTION AND TEST AREA

INTERIOR LOADING DOCK

PAINT BOOTH

ATP ROOM

CLEAN LINE

TESTING AREA

OZONE GENERATING EQUIPMENT

PAINT STORAGE

SEE ENLARGEMENT 1

SILICONE/ALUMINUM DIP

WWTP

CHEMICAL DRUM & PARTS STORAGE

COMPRESSOR ROOM

COMPRESSORS

DEBRIS PILE

CITY STORM DRAIN

HAZARDOUS WASTE DRUM STORAGE

DEBRIS/EMPTY DRUMS

PROPANE TANK

GENERATOR

3 55-GAL. DIESEL DRUMS

EXTERIOR STORAGE YARD

EXTERIOR STORAGE YARD

STORM DRAIN DITCH

WOODLAND

UNNAMED TRIBUTARY/DRAINAGE DITCH OF MOOSER CREEK

WOODLAND

LEGEND

- POLE/PAD -MOUNTED TRANSFORMER
- OVERHEAD POWER LINE
- EXTERIOR STORAGE CONTAINERS
- TRASH DUMPSTER
- BORG/METAL RECYCLING DUMPSTERS
- FENCE
- SITE BOUNDARY
- SURFACE DRAINAGE FLOW DIRECTION
- MW-8 PROPOSED MONITORING WELL LOCATION

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

PROPOSED MONITORING WELL LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	01/18/2010	FIGURE 4
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

APPENDIX B

A & M ENGINEERING PROJECT PERSONNEL RESUMES

Professional Qualifications of

Turgay M. Ertugrul, P. E.

Senior Civil and Environmental Engineer

Education

M. S., Environmental Engineering,
Johns Hopkins Univ., 1982
B. S., Civil Engineering,
Univ. of Maryland, 1976

Registrations and Certifications

Registered Professional Engineer: Oklahoma; Maryland; Kentucky; Kansas; Missouri; Iowa
Licensed UST Tank Consultant - Oklahoma
Certified Hazardous Waste Operator and Supervisor

Areas of Expertise and Experience

Mr. Ertugrul, Vice President, is experienced in project management, construction, design and development of contract drawings, specifications and reports for Subtitle C and Subtitle D landfills, wastewater treatment and disposal projects, hazardous and toxic waste cleanup, pumping stations, sanitary sewer systems, storm drains and sewage installations, municipal facilities and residential subdivisions. In addition, he supervises subcontractors, construction personnel, engineers and draftsmen who comprise project teams. His experience includes preliminary studies, engineering design specification, construction management and review, preparation of operation and maintenance manuals, feasibility studies, start-up services and facility troubleshooting for wastewater collection and transport systems, water distribution systems, water and wastewater treatment facilities, pumping stations, water storage tanks, wells, flow metering structures, solid waste hazardous waste treatment and disposal facilities, hazardous and toxic waste cleanup and other related solid waste/hazardous waste, water and wastewater facilities.

1992-Pres.	A & M Engineering and Environmental Services, Inc., Tulsa, OK
1981-1992	Greenhorne & O'Mara, Inc., Greenbelt, MD
1976-1981	James Petrica & Assoc., Towson, MD
1973-1975	J. E. Greiner Environmental Sciences, Baltimore, MD

Associations

American Society of Civil Engineers
Society of American Military Engineers
Water Pollution Control Federation
American Waterworks Association
Chesapeake Water Pollution Control Association

Representative Project Experience (Partial List)

Victory Landfill, Bartlesville, OK, Phibro Resources Corp. Project Manager for design and permit application preparation of a 2,000,000 cy Subtitle C industrial landfill. Hydrological modeling using Soil Conservation Services' TR-55 hydrograph modeling method for determining hydrological impact of a stream relocation needed in the design of the landfill. Prepared pollution prevention plan for approximately 100 acres of disturbed area and acquired stream relocation wetlands permits from the Corps of Engineers.

J. I. Case Landfill, Pryor, OK, EMCON
Project Manager for closure construction and certification of 13 acre landfill. Obtained ODEQ approval for closure of 9 million gallon stormwater settling pond. Removed, stabilized, and disposed in the landfill approximately 16,000 cy of foundry sand contaminated sludge.

Cell B Landfill, Morgantown, KY, IMCO Recycling Inc. Project Manager for design, permit application, and construction of 800,000 cy Subtitle C industrial landfill. Included hydrological modeling in the design of stormwater management pond and preparation of pollution prevention plan.

Landfill Closure, Sand Springs, OK, The Kerr Group
Project Manager for closure design, permit application, construction and certification of two glass waste landfills. Included preparation of storm runoff calculations and grading to divert storm drainage away from the landfill caps.

Foundry Lead Abatement, Tulsa, OK, McDonnell Douglas
Project Manager for abatement of lead contamination of equipment and foundry building interior at Air Force Plant No. 3.

WWTP Demolition, Tulsa, OK, McDonnell Douglas Corp. Project Manager for demolition of decommissioned waste water treatment plant and disposal of contaminated materials.

Valley Industries Site, Catoosa, OK, Tulsa-Rogers County Port of Catoosa. Project Manager for UST removal and disposal, building interior decontamination.

Professional Qualifications of

Turgay M. Ertugrul, P. E.

Senior Civil and Environmental Engineer

(Continued)

Representative Project Experience (Partial List)

Yaffe Iron & Metals Co., Inc., Muskogee, Oklahoma
Design of stormwater management and sedimentation impoundment and structures for a 60 acre scrap yard located in an urban area. The hydrological design is based on runoff volume and peak flows calculated using the U.S. Department of Agriculture Soil Conservation Service's TR-55 Urban Hydrology Modeling for Small Watersheds. All structures are sized to pass a 100 year, 24 hour storm event.

Wastewater Treatment Plant, Frederick, Maryland
Design of a 7 million gpd advanced wastewater treatment plant using innovative and alternative technology. Included constructing new plant out of the flood plain and demolition of existing plant located in flood plain and prone to flooding. HEC I and HEC II hydrograph routing methods were prepared and a bridge access to the plant site was designed and constructed. Prepared sediment erosion and stormwater management plans.

WWTP Sludge Loading Facility, Baltimore, MD
Concept development, design, and construction services for 1,500 ton capacity sludge storage and rapid truck loading facility for 625 tpd. Project included design drawings for stormwater management and sediment and erosion control measures.

IMCO Recycling Inc., Morgantown, Kentucky
Managed design and preparation of specifications for vertical expansion of a double-lined Class I disposal landfill for disposing hazardous waste material.

Farmland Industries, Coffeyville, Kansas
Closure of an oily sludge pond by soil solidification and landfilling

Mountain Lake Water System Improvements, Garrett County, Maryland
Hydrogeological analysis, design and construction services for rehabilitation of existing springs, new springs, water storage tank and altitude control valve vault.

Wastewater Treatment Plant Upgrading, Anne Arundel County, Maryland
Rehabilitation of a 2 million gpd wastewater treatment plant, including septage receiving station, aerated grit chamber, flow metering, chlorine contact tank, automatic chlorination and sulfonation equipment, post-aeration system, sludge dewatering system utilizing belt type filter press, lime stabilization system for sludge treatment and phosphorus removal facilities.

Representative Project Experience (Partial List)

Water Pollution Control Facility, Monroe County, Michigan
Planning and design of wet weather improvements to a 24 million gpd activated sludge treatment plant, including improvements to existing flood pumping stations, 6,300 linear feet of 48-inch and 66-inch relief interceptor sewer, various sewer diversion structures, a 59 million gpd raw wastewater screening and pumping station, a 54 million gpd wet weather treatment facility and 6,900 linear feet of outfall sewer.

Sewage Facilities Study, Aberdeen Proving Grounds, Maryland
Evaluated alternate sewerage facilities to accommodate future growth and future nutrient removal requirements, including siting evaluations, conceptual designs and life cycle cost analyses for 2.0 mgd collection and treatment facilities.

Powder Mill Branch Metering Station, Baltimore, Maryland
Planning and design of hydraulic relief structure and Parshall flume-flow metering station.

Septage Facilities, Anne Arundel County, Maryland
Responsible for planning and design of completely automated septage receiving facility, with computer controlled sampling, testing, data management and system controls, grease receiving station and grit receiving and dewatering station. Included hydrological study and hydrograph modeling using TR-55 for the construction area as part of a Chesapeake Bay Construction in Sensitive Area Study

Swan Pond Facilities Study, Charles County, Maryland
Prepared planning studies with conceptual designs and cost estimates for water supply, storage and distribution, vacuum sewer wastewater collection and advanced wastewater treatment facility for a 2,000 home community. Included stormwater management study and wetlands delineation and permitting.

Sanitary Landfill, Charles County, Maryland
Provided design and permitting assistance for capacity expansion and closure for an existing 90 acre sanitary landfill, including cap design, surface runoff collection system, stormwater management and gas venting.

Replacement Well, Indian Head Naval Ordnance Station, Maryland
Managed hydrogeologic investigation, well testing and design of replacement 200 gpm well, well pump, flow metering, chlorination system, well house and site improvements.

Professional Qualifications of

Irfan Taner, C. P. G. and P.G.

Geologist/Hydrogeologist

Education

M. S., Geology, University of Istanbul - 1974,
Graduate Studies (Geology),
University of Tulsa - 1980 - 1981
B. S., Geology/Geophysics,
University of Istanbul -1973

Areas of Expertise and Experience

Mr. Taner has over 26 years professional experience in earth sciences. He has developed expertise in field and subsurface mapping, hydrogeology, environmental geology, stratigraphy, structural geology/tectonics, petroleum geology and engineering geology. His experience in hydrogeology - environmental geology includes hazardous and non-hazardous site characterization, evaluation, and remedial design; groundwater monitor well design, construction and sampling; deep injection well design, permitting, construction and operation; landfill permitting design and construction; groundwater characterization and modeling. He has used many different data sets in different disciplines and, from this experience, has developed the expertise to integrate them and evaluate very complex projects.

Mr. Taner has also served as an expert in several civil litigations involving environmental cases.

1988-Pres.	Chief Geologist, A & M Engineering and Environmental Services, Inc.
1983-1988	Consulting Geologist, A. A. Meyerhoff and Associates, Tulsa, Oklahoma
1981-1983	Geologist/Geophysicist, Borehole Exploration Co., Tulsa, Oklahoma
1980-1981	Geologist, Cities Service Technology Center, Tulsa, Oklahoma
1976-1980	Geologist, Turkish Petroleum, Ankara,
1975-1976	Geologist, Turkish Army, Ankara, Turkey

Publications

Mr. Taner has published 20 papers in refereed journals and co-authored two books, China - Stratigraphy, Paleogeography & Tectonics, a comprehensive treatment of the geology of China, and Tectonics: A New Hypothesis of Global Geodynamics, both published by Kluwer Academic Publishers.

Associations

Association of Engineering Geologists
American Association of Petroleum Geologists
Association of Groundwater Scientists and Engineers
AAPG Division of Environmental Geosciences (Charter Member)
Tulsa Geological Society

Registrations and Certifications

Certified Professional Geologist: American Institute of Professional Geologists
Registered Professional Geologist: Tennessee, Kentucky, and Kansas
Licensed UST Tank Consultant - Oklahoma
Licensed Geotechnical Well Driller - Oklahoma
Certified Hazardous Waste Operator

Representative Project Experience (Partial List)

Yaffe Iron and Metal, Inc., Liberal, Kansas
Investigation, remedial design, and remediation of lead contaminated soil at metal recycling facility.

Sun Pipe Line Company, Enid, Oklahoma
Project manager for excavation, removal of TPH contaminated soil. The project included removal and disposal of a 10,000 gallon UST from a site in Enid, OK.

U.S. Air Force/McDonnell Douglas, USAF Plant # 3, Tulsa, Oklahoma
Project Manager for Lead-Based Paint and Asbestos Survey of over 1.5 million square feet facilities.

U.S. Air Force/McDonnell Douglas, USAF Plant # 3, Tulsa, Oklahoma
Project Manager for process areas characterization for soil and groundwater contamination, remedial design, and remediation. Machine pits contamination investigation, remediation and closure. Hydrogeological investigation and groundwater modeling for onsite hazardous waste lagoons and landfill. Delisting of F 002,0 003, 005, and 019 wastes and cleanup and closure of landfill.

Professional Qualifications of

Irfan Taner, C. P. G. and P.G.

Geologist/Hydrogeologist

Representative Project Experience (Partial List)

Kaiser Aluminum and Chemical Corp., Tulsa, OK.
Conducted survey and site characterization of groundwater around waste disposal pond containing radioactive material. Designed and installed groundwater monitoring system and oversee operation of the system.

Kaiser Aluminum and Chemical Corp., Tulsa, OK.
Conducted Quality Assurance of radiation protection program for the remediation of adjacent properties surrounding a radioactive contaminated waste disposal pond. Reviewed documentation and procedures used by construction group during the project.

IMCO Recycling Inc., Morgantown, Kentucky.
Project Manager for design, permit application preparation, and construction of Class I industrial deep injection well. Conducted hydrogeological surveys of plant area for onsite landfills, retention ponds and plant structures and developed three dimensional models for the site. Installed surface and groundwater monitoring systems and oversee operation of the systems.

Duralast (Unarco Industries, Inc.), Tulsa, Oklahoma.
Site characterization, groundwater and surface water investigation, remedial design for soil and groundwater, and site remediation.

A-Z Terminal Corp., Amelia, Louisiana
Investigation, remedial design, and remediation of a pipe supply yard having metals contaminated soil. Excavated, transported and disposed 300 cy of treated soil.

Browning Ferris Industries, Tulsa, Oklahoma.
Groundwater investigation, permitting, and evaluation of groundwater monitoring system.

Valero Energy, San Antonio, Texas.
Conducted hydrogeological survey and investigated soil and groundwater contamination in relation to oil field. Prepared remediation design.

American Freightways, Tulsa, Oklahoma
Project manager for conducting ORBCA analysis as a result of confirmed release.

Representative Project Experience (Partial List)

Farmland Industries, Inc., Coffeyville, Kansas.
Conducted survey and site characterization of hazardous refinery sludge ponds. Prepared groundwater evaluation for pond closures and onsite landfill construction. Designed and installed groundwater monitoring system for lagoons and landfill.

IMCO Recycling Inc., Sapulpa, Oklahoma.
Investigated the shallow and deep groundwater aquifers in relation to onsite Class I industrial deep injection well, retention pond and landfill. Assisted in management and disposal of aluminum salt cake, magnesium salt cake, and baghouse dust from an aluminum and magnesium recycling operation.

Bonus Store Wagoner, Oklahoma
Project manager for removal of four UST's and site remediation conducted under ORBCA rules.

Professional Qualifications of

David M. Cooper

Project Manager / Marketing Director / Safety Director

Education

Business Administration, Austin Peay State University
Hazardous Materials Management, Oklahoma State University
Occupational Safety & Health, OSHA Training Institute

Areas of Expertise and Experience

Mr. Cooper has experience and training as a Certified Hazardous Materials Manager and as a Corporate Health and Safety Officer and Safety Training Instructor. Mr. Cooper Has served as Foreman, Superintendent, General Manager and Safety Officer for nearly twenty years

Mr. Cooper has been involved in numerous projects pertaining to the Tri-State Mining Area and the wastes associated with lead and zinc mining.

Registrations and Certifications

OSHA Outreach Safety Training Instructor
Certified Hazardous Waste Operator (Supervisor) Instructor

Representative Project Experience (Partial List)

American Airlines Maintenance Facility, Tulsa, Oklahoma
On-site Project Manager for the decontamination and decommissioning of the former metals plating facility. Responsible for the identification, classification and disposal of several thousand gallons of plating waste and the decontamination and removal of the plating equipment

Compass Industries Superfund Site, Tulsa, Oklahoma
Foreman / Safety Officer responsible for employee occupational safety during the completion of a multi-million dollar Superfund Project.

Ark City Superfund Site Arkansas City, Kansas
General Manager / Superintendent of a multi-million dollar acid sludge neutralization / solidification and capping Superfund Project in southern Kansas

West Bank Interceptor Project, Tulsa, Oklahoma
Superintendent / Safety Officer of a major utilities construction project involving the treatment and discharge of nearly five million gallons of petroleum contaminated ground water and the recovery of 40,000 barrels of petroleum product.

Representative Project Experience (Partial)

Bartlesville Lead Abatement, Bartlesville, Oklahoma
General Manager for the lead contaminated soils removal from over 400 residences in the Superfund Operable Unit.

Blackwell Smelter Project, Blackwell, Oklahoma
General Manager of operations during the residential soils removal and smelter site cleanup. Constructed the on-site repository and cap.

Galena Superfund Site, Galena, Kansas
General Manager / Site Safety Officer for the mining waste clean up project. This project was part of the Tri-State Mining Area Superfund Project.

Baxter Springs Superfund Site, Baxter Springs, Kansas
General Manager for the cleanup of the mining waste generated during the lead mining conducted in this area.

Tar Creek Superfund Project, Picher, Oklahoma
General Manager for the one of the Projects conducted in this area. The Tar Creek Superfund Site is one of many associated with the Tri-State Mining Area Cleanup.

Sand Springs Petrochemical Superfund Project
Sand Springs, Oklahoma
On-site project manager and Safety Officer during the initial Test and Studies Phase for the neutralization and solidification of acid sludge generated during petroleum refining.

U.S. Air Force, McConnell Air Force Base
Wichita, Kansas
On-site Superintendent / Safety Officer for a Project consisting of the removal, identification, solidification-stabilization, and disposal of RCRA hazardous wastes generated in 45 oil/water separators throughout the base.

Macklenberg-Duncan Inc. Oklahoma City, Oklahoma
On-site Superintendent for project consisting of the identification, insitu-solidification / stabilization, removal, and disposal of wastes generated during the manufacturing of numerous household products and adhesives.

Professional Qualifications of

Abigail Lazar

Project Manager/Environmental Scientist

Education

B.S., Environmental Studies—Emphasis in Biological Resources and Ecology, San Jose State University - 1998

Areas of Expertise and Experience

Mrs. Lazar has been involved in a variety of projects for A & M Engineering such as Phase I and II Environmental Assessments, Brownfield Sites, VCP sites, Asbestos and Mold inspections, QA/QC for construction of landfills, monitoring well testing, NPDES storm water monitoring, and wetland delineations.

Mrs. Lazar has conducted Health and Safety Inspections for a variety of facilities and has conducted numerous environmental compliance audits or a variety of facilities.

Registrations and Certifications

- Certified Hazardous Waste Operator
- Certified AHERA Inspector
- Certified 38-Hour Army Corps of Engineers Wetland Delineation and Management Training
- Certified State of Oklahoma Real Estate Instructor
- AIHA—Mold Assessment, Remediation, and Prevention—BMPs

Representative Project Experience (Partial)

Corps of Engineers, Tulsa District, Oklahoma
Phase I Environmental Assessment and Asbestos inspection of 15 duplexes and 4 houses in Oklahoma City, Oklahoma for a proposed parking lot.

ASCOG, Duncan Oklahoma
Phase I Environmental Assessments of five sites throughout southwest Oklahoma. Asbestos Inspection of 60,000 square feet building.

Representative Project Experience (Partial)

Williams Exploration and Production, Tulsa, Oklahoma
Conducted Wetlands Delineation for 17-mile proposed pipeline.

Muscogee (Creek) Nation—Oklahoma
Performed NEPA EA and Phase I ESAs investigations for multiple properties, including a proposed water line site, proposed recreation facilities, industrial parks, residences, community centers, museum, gaming facility, and smoke shop.

United States Cellular—Oklahoma, Kansas, and Missouri
Performed NEPA EA and Phase I ESAs investigations for multiple proposed cellular tower sites.

Waste Management, Tulsa, Oklahoma
QA/QC inspector for the installation of the clay, GCL, HDPE, and Geotextile liners for 5.93-Acre and 7.8-Acre landfills.

Waste Management, Knoxville, Tennessee
QA/QC inspector for the installation of the clay, HDPE, Geotextile, and sand liners and installation of the leachate collection system for a 5.50-Acre landfill.

Waste Management, Oklahoma City, Oklahoma
QA/QC inspector for the installation of the HDPE, and Geotextile liners for 3.2-Acre landfill.

American Environmental Landfill, Sand Springs Oklahoma
Quality Assurance inspector for the installation of clay, GCL, and HDPE liner for 6.7-Acre landfill.

Spectrum Field Services—Velma, Oklahoma
Conducted Phase I Environmental Assessment for gas plant and associated compressor stations. Prepared SPCC Plans for each site.

Abigail Lazar

Project Manager/Environmental Scientist

Representative Project Experience (Partial)

Phase I Environmental Site Assessments for:

- *Doerner, Saunders, Daniel & Anderson*—Texas, Oklahoma, Texas, Kansas, and Missouri
- *ASCOG*—Lawton, Chickasha, Devol, Temple, Oklahoma
- *U.S. Corps of Engineers, Tulsa District*—Oklahoma City, Oklahoma
- *Tulsa Industrial Authority*—Tulsa, Oklahoma
- *Muscogee (Creek) Nation*—Sapulpa, Coweta, Okmulgee, Cromwell, Oklahoma
- *Oklahoma Ordnance Works Authority*—Pryor, Oklahoma
- *Bank of America*—Georgia, Florida, California, Tennessee, Indiana, South Carolina, North Carolina, Texas, Missouri, Arkansas, New Mexico, Oklahoma
- *US Bank*—Saint Louis, Missouri
- *Safety Kleen*—Illinois, Kentucky, California
- *Glover Properties*—Tulsa, Oklahoma
- *CB Richard Ellis*—Tulsa, Oklahoma
- *Adwon Properties*—Tulsa, Oklahoma
- *McLeodUSA*—Tulsa, Oklahoma
- *Dresser Flow Control*—Corpus Christi, Texas
- *KMO Development*—Tulsa, Oklahoma
- *First National Bank & Trust*—Tulsa, Oklahoma
- *Git 'n' Go*—Tulsa, Oklahoma
- *State Bank*—Tulsa, Oklahoma
- *Godwin Associates*—Broken Arrow, Oklahoma
- *Oklahoma National Bank*—Tulsa, Oklahoma
- *Oklahoma State University*, - Stillwater, Oklahoma
- *KeeTooWah Band*—Cherokee City, Oklahoma
- *AVB Bank (previously Arkansas Valley State Bank)*—Tulsa Area, Oklahoma
- *NAI Realtors*—Tulsa, Oklahoma
- *Trust Company of Oklahoma*—Tulsa, Oklahoma
- *Newman Contracting Company*—Sapulpa and Glenpool, Oklahoma
- *Small Business Association*—Tulsa Area, Oklahoma
- *Reasors*—Tulsa, Oklahoma

Representative Project Experience (Partial)

Phase II Environmental Site Assessments for:

- *Acme Brick Company*—Wichita Kansas
- *GEA Rainey Corporation*—Catoosa, Oklahoma
- *US Bank*—Golden City, Missouri
- *Bancorp South*—Marshall, Texas
- *ALL Consulting*—Oklahoma City, Oklahoma
- *211 S. Elgin, LLC*—Tulsa, Oklahoma
- *Orchids Paper Products*—Pryor, Oklahoma
- *Limco Airepair*—Tulsa, Oklahoma

Modern Plating, Co., Inc. - Tulsa, Oklahoma
Managed environmental permits including: NPDES Stormwater, Form R, Tier II, and Sanitary Sewer Discharge Permit. Administered quantitative and qualitative analysis and reports for the chemistry lab.

Wallis Oil Company-Saint Louis, Missouri
Wrote Missouri Risk Based Corrective Action (MRBCA) Tier I Reports and UST Closure Reports for previous and existing gasoline stations.

Vertex Environmental—Tulsa and Stillwater, Oklahoma
Conducted asbestos inspections for several buildings (approximately 4,000 sq. feet total) for demolition and remodeling purposes. Sampling included roof core samples.

Limco Airepair—Tulsa, Oklahoma
Prepared the Work Plan, Sampling & Analysis Plan, QAPP, and Health & Safety Plan for a VCP Site Characterization.

Mayo Shopping Center—Tulsa, Oklahoma
Conducted a limited asbestos inspection for a retail strip shopping center (approximately 10,000 sq. feet) for a additional Scope of Work for a Phase I ESA.

ALL Consulting—Oklahoma City, Oklahoma
Conducted a mold inspection for a Brownfields property (30,000 sq. feet). Collected surface swab samples.

Professional Qualifications of

Ty M. Ertugrul

Environmental Scientist

Education

B.S., Environmental Science,
University of Evansville - 1998

Areas of Expertise and Experience

Mr. Ertugrul has been involved in a variety of projects for A & M Engineering such as Phase I Environmental Assessments, Phase II Environmental Assessments, monitoring well testing, NPDES Stormwater monitoring, Storm Water Pollution Prevention Plans and proposal development.

Mr. Ertugrul has conducted certified AHERA Asbestos Inspections for a variety of facilities in Tulsa, Oklahoma and Chicago, Illinois.

Mr. Ertugrul has also worked as the QA/QC Inspector for Waste Management in Knoxville, Tennessee and IMCO Recycling Company in Sapulpa, Oklahoma and Morgantown, KY.

Registrations and Certifications

Certified Hazardous Waste Operator
Certified Nuclear Moisture Density Gauge Operator
Certified AHERA Asbestos Inspector
Certified HUD Lead Inspector

Representative Project Experience (Partial)

Williams Natural Gas, Tulsa, Oklahoma
QA/QC Inspector for inventory of 55-gallon drums for service stations in Colorado, Kansas, Nebraska, and Oklahoma. Sampled 55-gallon drums for laboratory analysis.

Kerr Plastics, Sand Springs, Oklahoma
Collection and evaluation of quarterly groundwater sampling event.

Waste Management, Tulsa, Oklahoma
Sieve analysis of clay samples.

IMCO Recycling Company, Sapulpa, Oklahoma
Collection and evaluation of quarterly groundwater sampling event.

McDonnell Douglas Corporation/USAF, Tulsa, Oklahoma
Soil and groundwater monitoring well sampling for industrial landfill post-closure monitoring services.

Representative Project Experience (Partial)

McDonuell Douglas Corporation/USAF, Tulsa, Oklahoma
Collected paint samples for lead-based-paint analysis, evaluation, and abatement of foundry at the Air Force Plant No. 3.

IMCO Recycling Company, Sapulpa, Oklahoma
Performed analysis and standard Proctor for soils to be used in construction of storm water retention pond. QA/QC inspector for clay liner for storm water retention pond. Conducted nuclear density tests.

Allied Materials, Stroud, Oklahoma
Collected and evaluated quarterly groundwater sampling events.

Waste Management, Knoxville, Teunessee
QA/QC inspector for the landfill access road. Conducted nuclear density tests on road. Oversaw the demolition of a building and pad. Oversaw excavation of Cell B landfill.

IMCO Recycling Compauy, Sapulpa, Oklahoma
Prepared Storm Water Pollution Prevention Plan

Sandy Creek Wastewater Treatmeut Facility, Sand Springs, Oklahoma
Prepared Storm Water Pollution Prevention Plan

IMCO Recycling Company, Sapulpa, Oklahoma
Prepared construction design permit, certification for completion of project, and closure plan.

Kaiser Aluminnm, Tulsa, Oklahoma
Collection and evaluation of quarterly groundwater sampling event. Prepare quarterly groundwater report. Assisted in capping contaminated soil in consolidation area.

Phase I Environmental Assessments/Audits:
United States Cellular, Tulsa, Oklahoma
First National Bank of Oklahoma Tulsa, Oklahoma
Arvest-State Bank Tulsa, Oklahoma
Salvation Army, Tulsa, Oklahoma
First National of Broken Arrow, Broken Arrow, Oklahoma
Roman Real-Estate, Chicago, Illinois
Hall, Rosenbaum, & Associates, Broken Arrow, Oklahoma
Rock Springs Partnership, Broken Arrow, Oklahoma
Williams Energy, Tulsa, Oklahoma

Phase II Environmental Assessments/Audits:
Roman Real -Estate, Chicago, Illinois
United States Cellular, Tulsa, Oklahoma
Hall, Rosenbaum, & Associates, Broken Arrow, Oklahoma

A &M Engineering and Environmental Services, Inc.

Personnel Qualifications

Key and Support Staff

NAME	DEGREE/QUALIFICATION	YEARS	AIR POLLUTION ENGINEERING	AIR QUALITY	WATER TREATMENT	WASTEWATER TREATMENT	ENVIRONMENTAL AUDITS/ASSESSMENTS	SOLID WASTE MANAGEMENT	HAZARDOUS WASTE MANAGEMENT	GEOTECHNICAL	GROUNDWATER	WATER QUALITY	SAMPLING AND ANALYSIS	PROCESS ENGINEERING	WATER RESOURCES	CIVIL ENGINEERING	RADIOLOGICAL MATERIALS MANAGEMENT	CONSTRUCTION MANAGEMENT	GEOLOGY	ENVIRONMENTAL COMPLIANCE	ASBESTOS INSPECTION/MANAGEMENT	LEAD-BASED PAINT INSPECTION MANAGEMENT	HEALTH AND SAFETY	BIOLOGY	MOLD	ENVIRONMENTAL PROFESSIONAL 40CFR.Part 312
ALTAY M. ERTUGRUL, P.E.	M.S., Civil Engineering; M.S., Environmental Engineering	42	■		■	■	■	■	■		■	■	■		■	■				■						■
TURGAY M. ERTUGRUL, P.E.	M.S., Environmental Engineering; B.S., Civil Engineering	31			■	■	■	■	■	■	■	■	■	■	■	■	■	■		■					■	■
IRFAN TANER, C.P.G., P.G.	M.S. Geology	34					■	■	■	■	■	■	■		■		■	■	■	■					■	■
OKTAY M. ERTUGRUL, P.E.	M.S., Environmental Engineering; B.S., Civil Engineering	36	■	■	■	■		■	■			■	■	■	■	■		■		■		■				
AL NADIR*	M.S., Chemical Engineering	31	■	■	■	■			■					■			■									
RONALD G. TRACY, P.E.*	M.S., Civil Engineering	31					■	■	■	■				■	■	■		■								
JAMES DERBY, PhD, C.P.G.*	PhD Geology	41					■			■	■	■	■						■	■						
B.H. WAYSCHOFF, P.E.*	B.S., Petroleum Engineering	47							■					■					■							
GAVIN J. JAMES, P.E.	M.S., Civil Engineering	10			■	■	■	■	■	■	■	■	■		■	■	■	■	■							■
LARRY INGRAM	Certified Hazardous Waste Operator & Superviser	35						■	■						■		■	■		■						
JIM HORN	M.S. Environmental Engineering, B.S. Civil Engineering	50			■	■	■	■	■		■	■	■		■	■		■		■						■
DAVE COOPER	Hazardous Materials Management/H& S Compliance	19					■	■	■				■				■	■		■			■	■		
JON KUHN	B.S., Ecology	22				■	■	■	■	■	■	■	■	■			■	■	■	■	■			■		■
ABIGAIL LAZAR	B.S., Environmental Science	9					■	■	■	■		■								■	■		■	■	■	■
TY ERTUGRUL	B.S., Environmental Science	8					■	■	■			■	■							■	■	■	■			■
JOE KENNEDY	Regulatory Compliance Specialist	41					■	■	■								■			■				■		■
JUDY A. CUPPLES	B.S. Chemical/Environmental Engineering	11		■		■														■						
DEREN ERTUGRUL E.I.	B.S. Civil Engineering, M.S. Civil Engineering	3			■	■		■	■	■	■	■	■	■	■	■		■								

* Consultant

APPENDIX C

TABLES AND CHARTS

QAPP - Table 1
Project Organization and Implementation Chart

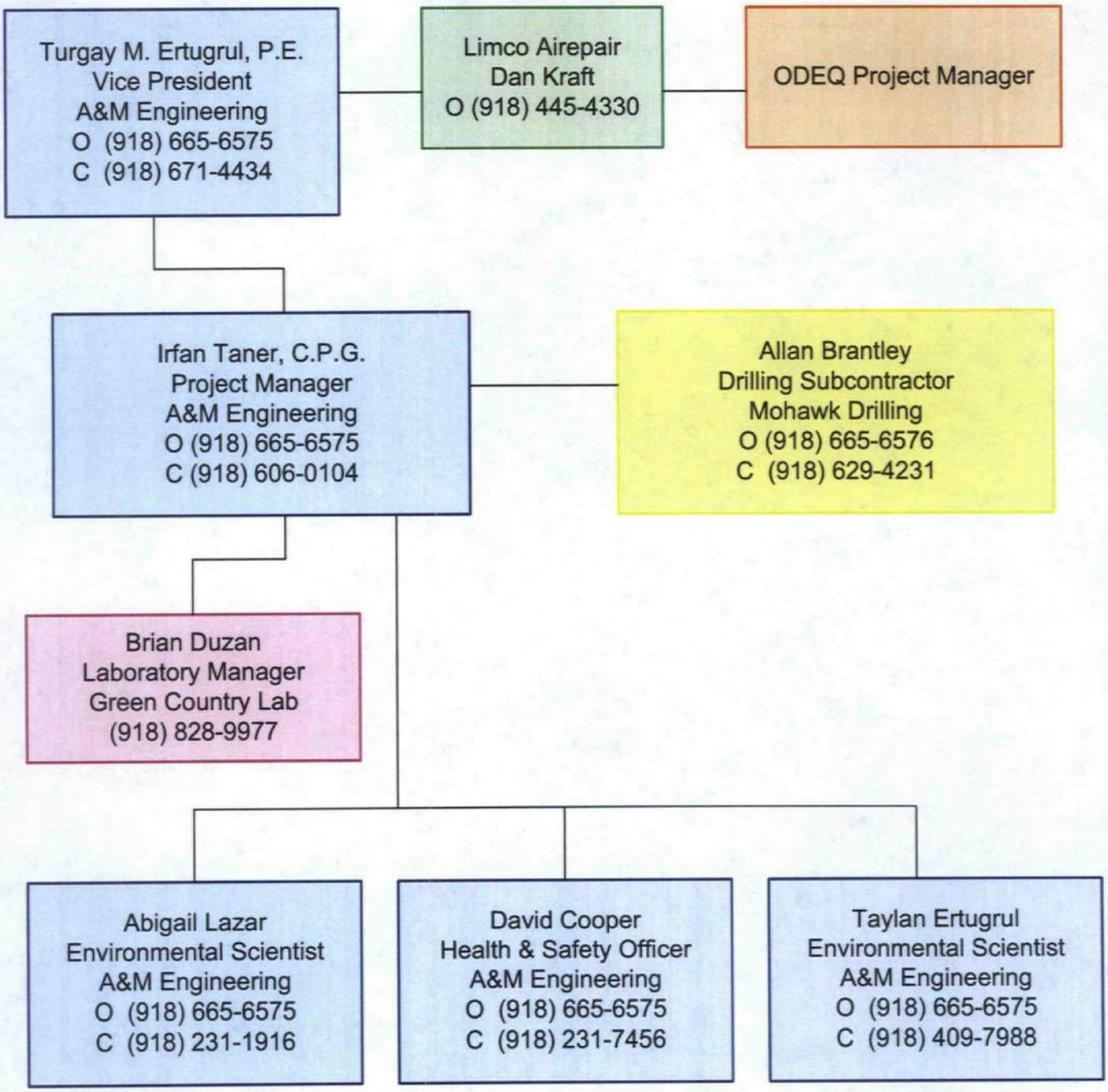

Table 2 - Groundwater Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	TH-1	TH-2	TH-4	MCL	Unit
Primary Metals					
Antimony	<0.5	<0.25	<0.05	0.006	mg/L
Arsenic	**0.824**	**0.55**	**0.25**	0.01	mg/L
Barium	**16.8**	**9.59**	**2.58**	2	mg/L
Beryllium	**0.074**	**0.0485**	**0.0135**	0.004	mg/L
Cadmium	**0.55**	**0.033**	**0.0052**	0.005	mg/L
Chromium	**1.98**	**1.2**	**0.446**	0.1	mg/L
Copper	0.888	0.756	0.279	1.3	mg/L
Lead	**1.87**	**1.01**	**0.322**	0.05	mg/L
Selenium	<0.5	<0.25	<0.12	0.05	mg/L
Thallium	<0.17	<0.12	<0.0500	0.002	mg/L
Mercury	**0.00228**	0.00115	0.00049	0.002	mg/L
Secondary Metals					
Nickel	1.98	1.5	0.48		mg/L
Potassium	107	76	35.9		mg/L
Silver	<0.1	0.0066	<0.01	0.1	mg/L
Sodium	26.2	37.7	32.6		mg/L
Zinc	**5.37**	3.49	1.37	5	mg/L
Chloride	46	59	39	250	mg/L
Organics					
Tricholoroethylene	ND	**0.202**	0.001	0.005	mg/L
Acetone	ND	ND	0.0052	22	mg/L
2-Butanone	ND	0.0084	ND	7.1	mg/L
cis- 1,2-Dichloroethene	ND	0.0017	ND	0.07	mg/L
Toluene	ND	0.001	ND	1	mg/L
Miscellaneous					
Fluoride	0.26	0.35	0.23	4	mg/L
Nitrate	3.04	2.48	2.15	10	mg/L
Nitrite	0.15	0.05	0.06	1	mg/L
Conductivity	452	872	605		µmhos/cm
pH	6.77	7.12	7.24	6.5-8.5	S.U.

BOLD indicates concentrations above the MCL (Maximum Contaminant Level) per the EPA National Drinking Water Standards

Table 3 - Soil Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	S-2	S-3	S-Drum	Risk Based Screening Levels for DA F =1 (Industrial)	Unit
Primary Metals					
Antimony	<4.81	<4.81	<5.0	4,100	mg/Kg
Arsenic	10	5.54	6.63	1.6	mg/Kg
Barium	62.7	81.5	94.1	190,000	mg/Kg
Beryllium	0.35	0.48	0.49	2,000	mg/Kg
Cadmium	0.21	0.31	1.28	810	mg/Kg
Chromium (Total)	16.4	14.1	28	1,400	mg/Kg
Copper	8.89	10.3	124	41,000	mg/Kg
Lead	16.1	13.6	19	800	mg/Kg
Selenium	4.56	<4.0	28.1	5,100	mg/Kg
Thallium	<5.0	<5.0	<4.9	66	mg/Kg
Mercury	0.049	0.071	0.298	28	mg/Kg
Secondary Metals					
Nickel	38.8	13.3	34.2	20,000	mg/Kg
Potassium	1370	1720	1370		mg/Kg
Silver	0.64	<0.55	0.71	5,100	mg/Kg
Sodium	230	138	77		mg/Kg
Zinc	43.1	38	294	310,000	mg/Kg
Chloride	17	115	28		mg/Kg
Organics					
Tricholoroethylene	ND	ND	ND	14	mg/Kg
Naphthalene	ND	0.0031	0.0042		mg/Kg
Chloroform	ND	ND	0.0016	1.5	mg/Kg
Toluene	ND	ND	0.0025	46,000	mg/Kg
Miscellaneous					
Fluoride	3.87	3.15	5.07	61,000	mg/Kg
Nitrate	38.5	21.9	0.5	160,000	mg/Kg
Conductivity	800	654	364		µmhos/cm
pH	8	8.14	8.06		S.U.

APPENDIX D

SAMPLING AND ANALYSIS PLAN

SEE ATTACHMENT B OF THE WORK PLAN FOR A COPY OF THE SAMPLING AND ANALYSIS PLAN

APPENDIX E

MOHAWK DRILLING OWRB LICENSE

STATE OF OKLAHOMA

OWRB
the water agency

Oklahoma Water Resources Board
3800 North Classen Blvd.
Oklahoma City, Oklahoma 73118

DRILLING/PUMP CONTRACTOR LICENSE

This is to certify that ***MOHAWK DRILLING, INC.*** *License Number* ***DPC-0563***

whose address is ***10010 E. 16th STREET TULSA, OK 74128***

has complied with the provision of Title 82 O. S., § 1020.16, as amended, and is hereby authorized to operate at each activity certified below in the State of Oklahoma in accordance with the above named law and the rules and regulations made by the Oklahoma Water Resources Board to govern and regulate such work.

1. **Commercial drilling and plugging of groundwater wells, test holes & observation wells**
2. **Commercial drilling and plugging of monitoring wells and geotechnical borings**
3. **Commercial installation of water well pumps**
4. **Commercial drilling and plugging of heat exchange wells**

Certified Activities
2
July 1, 2009
through
June 30, 2011

This license to remain in full force and effect in accordance with term unless expired, revoked, suspended or cancelled.

Duane A Smith

DUANE A. SMITH, EXECUTIVE DIRECTOR

APPENDIX F

FORMS

CHAIN OF CUSTODY RECORD

Page: _____ of _____

Customer Information		Project Information		Analysis/Methods
PO:		Project Name:	LIMCO AIREPAIR	
WO:		Project Number:	2059-004	
Company:	A&M ENGINEERING	Bill To:	A&M ENGINEERING	
Report to:	ABBY LAZAR	Invoice ATTN:	ABBY LAZAR	
Address:	10010 EAST 16TH STREET	Address:	10010 EAST 16TH STREET	
	TULSA, OK 74128		TULSA, OK 74128	
E-mail:	alazar@aandmengineering.com			
Phone:	918-665-6575	Phone:	918-665-6575	
Fax:	918-665-6576	Fax:	918-665-6576	

No.	Sample Description	Date	Time	Type	Matrix	# Containers	COMMENTS
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Sampler:	Shipment Method:	Date Due (fax):

1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:
1. Relinquished by:	Date:	2. Received by:	Date:	3. Relinquished by:	Date:	4. Received by:	Date:
Company:	Time:	Company:	Time:	Company:	Time:	Company:	Time:

Comments:		Standard turn	Other
		Rush turn	Cooler Temp:

A & M Engineering and Environmental Services, Inc.
PH: (918) 665-6575
Fax: (918) 665-6576

Client/Source LIMCO AIREPAIR	☐ Grab ☐ Composite
Site Name: LIMCO AIREPAIR	Date:
Sample No.	Time:
Analysis:	Coll. By:

QAPP – Form 2

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128 – 4813
ENGINEERING - ENVIRONMENTAL - CONSTRUCTION
(918) 665-6575 FAX (918) 665-6576
E-MAIL: AANDM@AANDMENGINEERING.COM

FIELD SAMPLING LOG

Project Name:	LIMCO AIREPAIR	**Sampling Date:**	
Site Location:	TULSA, OK	**Sampler Name**	
Project Number:	2059-004	**Others:**	

Sample Number	Sample Location	Material Description (Include color, odor, etc.)	Sample Matrix	Total Volume Collected

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128 – 4813
ENGINEERING - ENVIRONMENTAL - CONSTRUCTION
(918) 665-6575 FAX (918) 665-6576
E-MAIL: AANDM@AANDMENGINEERING.COM

DAILY FIELD LOG

PROJECT NAME: LIMCO AIREPAIR PROJECT NUMBER: 2059-004
DATE: FIELD SUPERVISOR:

OTHERS PRESENT (ADD PAGES IF NECESSARY)	AFFILIATION

FIELD INSTRUMENT(S)	INSTRUMENT ID NUMBER	DATE LAST CALIBRATED

DECONTAMINATION PROCEDURES FOLLOWED	Y	N	DEVIATION(S) OR MODIFICATION(S)	Y	N
Field Instruments					
Sample Devices					
Personal Protective Equipment					

SAMPLE LOCATION	TIME	SAMPLE METHOD	NO. SAMPLES	SAMPLE ID	LAB ID	PRESERVATIVES

Notes:

APPENDIX G

GREEN COUNTRY TESTING ENVIRONMENTAL LABORATORY QUALITY ASSURANCE PROGRAM PLAN

SEE ATTACHMENT B OF THE WORK PLAN FOR A COPY OF THE GREEN COUNTRY TESTING ENVIRONMENTAL LABORATORY SAMPLING AND ANALYSIS PLAN (APPENDIX D)

ATTACHMENT D

SITE SPECIFIC HEALTH AND SAFETY PLAN

HEALTH & SAFETY PLAN

LIMCO AIREPAIR
ODEQ-LPD CASE NO. 09-303
5304 SOUTH LAWTON AVENUE
(WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
TULSA, OKLAHOMA

SUBMITTED TO:
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY - LAND PROTECTION DIVISION
OKLAHOMA CITY, OKLAHOMA

DATE SUBMITTED: FEBRUARY 4, 2010

A & M PROJECT NO. 2059-003

PREPARED BY:

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
10010 EAST 16TH STREET
TULSA, OKLAHOMA 74128-4813
PHONE (918)-665-6575 & FAX (918)-665-6576

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APPENDIX C	HOSPITAL MAP
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SITE SPECIFIC HEALTH & SAFETY PLAN

FOR

SITE CHARACTERIZATION WORK PLAN

LIMCO AIREPAIR
ODEQ – LPD CASE NO. 09-303
5304 SOUTH LAWTON AVENUE
WITHIN THE NORTHWEST ¼ OF THE NORTHEAST ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST
CITY OF TULSA, TULSA COUNTY, OKLAHOMA

SECTION 1 PROJECT SUMMARY AND KNOWN HAZARDS

A & M Engineering and Environmental Services, Inc. (A & M Engineering) was contracted in June 2009 by Limco Airepair, Inc. to prepare a Work Plan for the Targeted Voluntary Cleanup Program - Limco Airepair Facility (the "Site"). The Site consists of approximately 4.7 acres of land with building facilities, located within the Northwest ¼ of the Northeast ¼ of Section 35, Township 19 North, Range 12 East in the City of Tulsa, Tulsa County, Oklahoma. The Site is situated in the northeast portion of the State of Oklahoma and within the west-central portion of Tulsa County. The Site consists of two industrial buildings, equipment/material storage yard, and parking lot occupied by Limco Airepair, a company that manufactures and assembles heat transfers, ducting, and air conditioning units. Limco Airepair owns the main building and leases the building located on the west portion of the site. Basic operations that are conducted on-site include: the manufacture and repair operations of heat exchangers and repair of aircraft air ducts. The facility operates 16 hours a day, 5.5 days a week and 22 days month, or 4,224 hours per year.

The Topographic Map (Figure 1), which depicts the location and general layout of the subject site, is provided in Appendix A.

The Phase II ESA/Site Characterization will be performed on-site in accordance with ASTM guidance in order to evaluate the degree of contamination and distribution. The

investigation will include eight (8) monitoring wells (maximum 30 feet depth each) within the accessible portions of the site using a standard type drill rig with hollow stem augers in order to facilitate the collection of solid and liquid (if present) samples for laboratory analyses. Potential contaminants include Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc, and volatiles.

Based upon our preliminary review of the information provided we have identified the following primary health and safety concerns associated with this project:

1. Worker awareness
2. Emergency contingency
3. Site control and work zones
4. Facility access / egress and parking arrangements
5. Potential Contaminants
6. Aboveground and underground utilities
7. Drill rig safety
8. Trips and falls
9. Heat and Cold Stress
10. Hygiene and Personal Protective Equipment
11. Decontamination procedures

SECTION 2 CONTACT INFORMATION

PRIMARY PROJECT CONTACT

Contact Name	Mr. Irfan Taner
Title	Chief Geologist / Senior Project Manager
Company	A & M Engineering and Environmental Services, Inc.
Company Address	10010 East 16th Street Tulsa, Oklahoma 74128
Office Telephone	(918) 665-6575
Cellular Telephone	(918) 606-0104

SECTION 3 WORKER AWARENESS

Prior to commencement of investigation activities a Preliminary Site Entry Evaluation Form (Appendix A) will be completed by the Site Project Manager (SPM) or Corporate Health & Safety Officer (CHSO) or his designee as deemed necessary by Corporate Management (CM).

Relative to the information compiled on the Preliminary Site Entry Evaluation Form and in reference to the health and safety requirements included herein a Pre-Inspection Health & Safety Meeting will be conducted for all A & M Engineering personnel and subcontractors to be involved on-site.

Attendees will be required to sign the Pre-Job Safety Orientation Signature Sheet included as Appendix B.

SECTION 4 EMERGENCY CONTINGENCY

Prior to project commencement an assembly point will be designated for emergency situations. The closest emergency response entities are shown below:

Major Emergencies:

Saint Francis Hospital
6161 S. Yale Ave.
Tulsa, Oklahoma 74104
(918) 494-2200

DIRECTIONS SEE APPENDIX C (HOSPITAL MAP A)

Minor Emergencies:

Concentra
5682 W. Skelly Dr.
Tulsa, Oklahoma 74107
(918) 446-1891

DIRECTIONS SEE APPENDIX C (HOSPITAL MAP B)

ALL EMERGENCIES 911

SECTION 5 SPECIFIC SITE CONTROL AND WORK ZONES

In regards to specific site control the Work Zones will be designated in the field and may change based upon investigative activities. Designation of these zones will be accomplished using existing features. In the absence of such features signage, safety fence, and caution tape may be used.

SECTION 6 FACILITY ACCESS / EGRESS AND PARKING ARRANGEMENTS

Workers will enter and exit the site at the designated access points. All workers will be restricted to the areas where they are performing work and wandering will not be permitted. The speed limits will be strictly enforced and vehicles will not exceed a maximum speed limit of 15 MPH on-site unless otherwise posted.

Roadways will not be blocked without prior approval. Vehicles and equipment will not be left running unattended. No weapons, firearms, or explosives will be allowed on any worker or within any vehicle/equipment entering the site.

SECTION 7 POTENTIAL CONTAMINANTS

Potential contaminants include Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc, and volatiles. Such contaminants may be encountered within the Testhole soils or uppermost groundwater during drilling and sampling activities.

SECTION 8 ABOVEGROUND AND UNDERGROUND UTILITIES

In accordance with the Oklahoma Underground Facilities Damage Prevention Act (Title 142) the Oklahoma One-Call System (Call Okie) will be notified a minimum of 48 hours prior to drilling activities. The notification number is (800) 522-6543 and the website address is www.callokie.com.

SECTION 9 DRILLING ACTIVITIES

During drilling activities the sampling personnel will stay clear of the workers and down hole auger. The sampling personnel will only enter the immediate drilling work zone once they have given notice to the drill rig operator and received his all clear. Grab samples will not be collected directly from the auger unless the drill rig operator has first stopped rotation of the down hole auger.

All drilling equipment will be operated in accordance with the Diamond Core Drill Manufacturers Association (DCDMA) and National Drilling Contractors Association (NDCA) Drilling Safety Guide included in Appendix D.

SECTION 10 TRIP AND FALLS

The drilling and sampling area can often be cluttered with both drilling and sampling equipment. These areas will be identified and walkways will be established in order to provide a safe work area free of clutter.

SECTION 11 WEATHER STRESS

HEAT STRESS

One of the most common types of stress that can affect field personnel is heat stress. Heat stress is typically a result of personnel protective equipment (PPE) that decreases natural body ventilation, although it can occur at any time work is being performed at elevated temperatures. In order to prevent heat stress the workers will monitor each other and look for common symptoms including the following:

- Red, hot, dry skin
- Nausea, dizziness, confusion, rapid pulse rate
- Lack of sweat
- Pale, clammy skin
- Weakness, cramps

In the event these symptoms are encountered the individuals clothing should be loosened and they should be sponged with cool water, moved to a cool place, and given water to drink.

In addition to monitoring, workers will be provided unlimited bottled drinking water and instructed to drink at least 16 ounces of water before beginning work and 4-8 ounces of water every 20 minutes for a total of 1-2 gallons per day. A shaded area will also be provided for breaks.

COLD WEATHER STRESS

Cold stress is less of a concern but can pose a hazard to workers once the temperatures reach less than 32°F. In addition, wind chill factors must be considered when evaluating the potential for cold stress conditions such as loss of mobility, loss of grip, numbness in the

extremities and even frostbite and hypothermia. During extreme cold temperatures, employees will be provided the clothing and equipment (at no cost) necessary to maintain an acceptable body temperature and perform job duties safely. In addition, a means to escape the cold (i.e., building, trailer, vehicle, etc.) will be provided for periodic breaks.

SECTION 12 HYGIENE AND PERSONNEL PROTECTIVE EQUIPMENT

All workers required to work within areas that may require the use of respirators will be clean shaven, except for mustaches which do not exceed the corners of the upper lip and sideburns which do not extend below the earlobes. Bottled drinking water and toilet facilities will be provided, as appropriate in designated areas. Smoking and other tobacco use will be limited to restricted areas. Fire protection and extinguishing equipment will be provided in each company vehicle. First aid assistance and first aid kits will be provided.

Mandatory Personal Protective Equipment (PPE) will be provided to all workers (at no cost) and include the following at a minimum:

- Hard Hat (ANSI Z89.1 approved)
- Safety Glasses (ANSI Z87.1 approved)
- Leather or Latex Gloves
- Steel Toed Boots with minimum 6-inch uppers

Other PPE that may be used in areas of specific need will be provided to all workers (at no cost) and include the following:

- Tyvek Suites
- Half or Full Faced Respirators equipped with Organic Vapor filters
- Hearing Protection (ear plugs)

Appropriate clothing and long pants (or Tyvek suit) must be worn at all times. Workers conducting drilling activities will wear leather gloves at all times. Personnel conducting sampling activities will wear latex gloves at all times. Workers and personnel in close proximity to the drill rig will also wear hearing protection. Personnel will be instructed to wash their work clothes daily and wash their hands and face repeatedly with soap and water prior to eating.

Half or full faced air-purifying respirators equipped with Organic Vapor filters may be used during physical sampling activities in the event noticeable vapors are detected.

SECTION 13 DECONTAMINATION

Decontamination of equipment and workers will be conducted within a designated decontamination area inside the work area. The order of worker decontamination will be as follows:

Step 1 Remove Respirator/rinse with soap & water (if worn)
Step 2 Remove Tyvek Suite & place in trash container (if worn)
Step 3 Rinse boots with soap & water using brush inside metal tub (if worn)
Step 4 Remove vinyl gloves & place in trash container
Step 5 Wash hands and face repeatedly with soap and water

Field personnel will be directed to wash their hands and face repeatedly with soap and water prior to eating. Disposable Tyvek suits (if worn) and other PPE will be deposited inside a trash container (demarcated & with lid) for appropriate off-site disposal. The rinsate water will be very minimal and simply allowed to evaporate inside the metal tubs.

SECTION 14 INJURY TO EMPLOYEES AND INCIDENT INVESTIGATION

All injuries will be reported immediately to a site representative. An Occupational Injury and Illness Report will be completed and supplied to the designated representative within one working day of the incident, no matter how minor. Incident investigations will be conducted in accordance with A & M Engineering policy.

SECTION 15 SPECIFIC ENVIRONMENTAL STANDARDS

Provisions will be made to ensure that all work is done in compliance with all environmental laws, rules, and regulations in a way that minimizes potential releases to the environment. In the event a spill occurs steps will be taken to immediately stop and/or control the release and notification will be provided to the client and client representatives immediately. Investigative activities will be conducted in accordance with the A & M Engineering Corporate Health & Safety Plan (CHSP).

SECTION 16 CORPORATE HEALTH AND SAFETY PLAN

A & M Engineering has a Corporate Health & Safety Plan (CHSP) in place that addresses all aspects of health and safety encountered on typical project sites. However, specific project needs are addressed in this Site Specific Health & Safety Plan with the support of the CHSP, which can be provided upon request.

APPENDIX A

PRELIMINARY SITE ENTRY EVALUATION FORM

A&M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

PRELIMINARY SITE ENTRY EVALUATION FORM

Site Name LIMCO AIREPAIR Project No. 2059-004

Conducted By: _____ Date: _____

Brief Project description: _____

Designated SPM: _____ Designated SCS: _____

Physical Hazards (include trips, falls, excavation hazards,etc.): _____

Exposure Hazards (include ACM, LBP, Volatiles, etc): _____

Is preliminary monitoring or material characterization needed? If so, describe: _____

Is monitoring recommended during project activities? If so, describe: _____

PPE Requirements (include routes of entry): _____

Are safety features operational on equipment to be used? Fire extinguishers in place? Describe:

APPENDIX B

PRE-JOB SAFETY ORIENTATION SIGNATURE SHEET

A & M Engineering and Enviornmental Services, Inc.

Health and Safety Sign-In Sheet

Training Conducted By: _____

Date of Training: _____

Subject of Training: _____

_____

_____

_____

	Name (Print)	Title/Position	Signature	Date
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

APPENDIX C

HOSPITAL MAP

Bing Maps

A: **5304 S Lawton Ave, Tulsa, OK 74107-9428**
B: **6161 S Yale Ave, Tulsa, OK 74136-1902**
Route: **6.1 mi, 9 min**

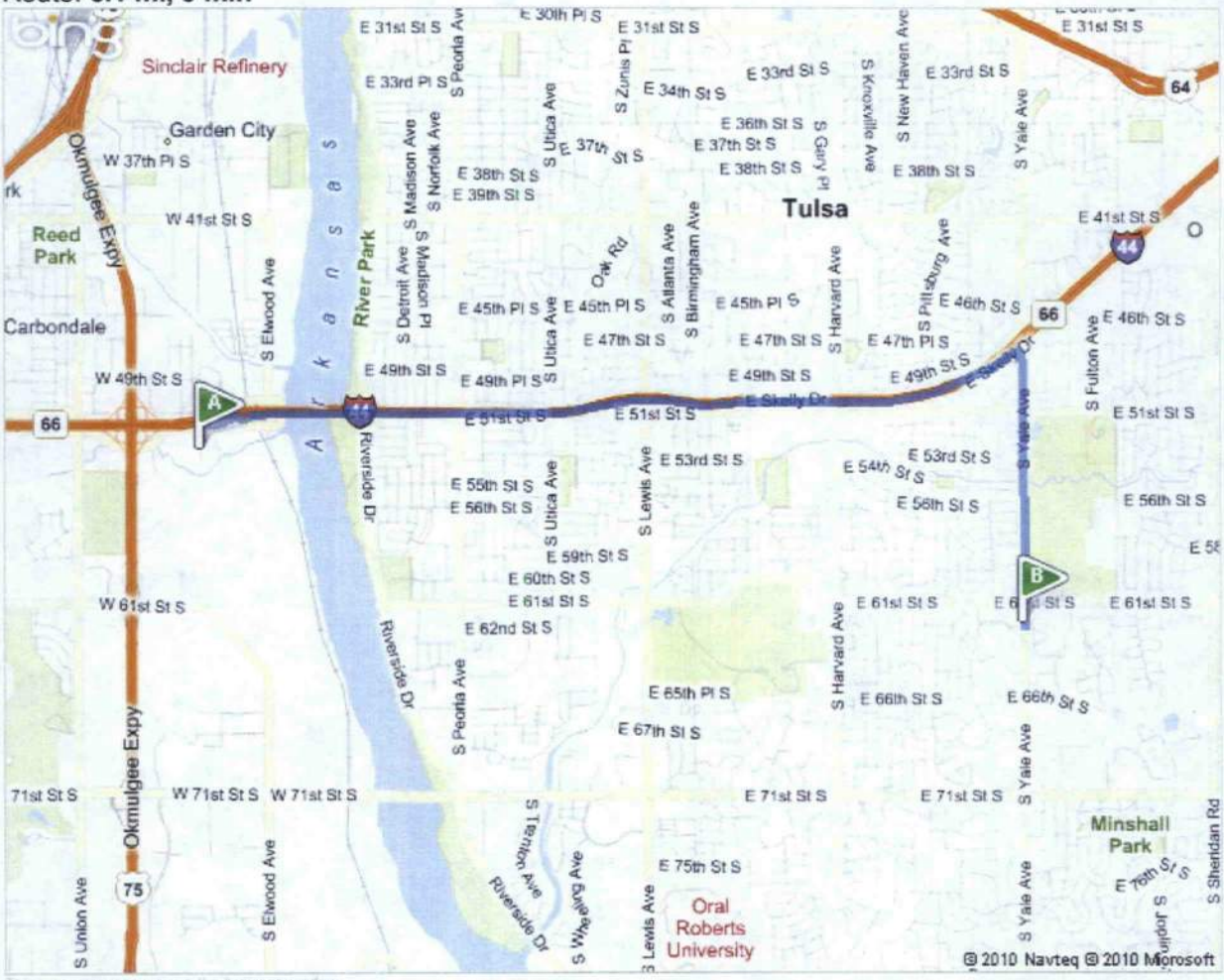
Limco Airepair to St. Francis Hospital
EMERGENCY Hospital

FREE! Use **Bing 411** to find movies, businesses & more: **800-BING-411**

A	**5304 S Lawton Ave, Tulsa, OK 74107-9428**	**A–B: 6.1 mi** 9 min
	1. Depart **S Lawton Ave W**	0.1 mi
⇨	2. Turn **right** onto **W Skelly Dr**	0.2 mi
↖	3. Take ramp **left** and follow signs for **I-44 East / SR-66 East**	3.9 mi
↗	4. At exit **229**, take ramp **right** and follow signs for **E Skelly Dr** *BAYMONT INN & SUITES on the corner*	0.2 mi
⇨	5. Turn **right** onto **S Yale Ave**	1.5 mi
↩	6. Make a U-turn to stay on **S Yale Ave**	0.1 mi
B	7. Arrive at **6161 S Yale Ave, Tulsa, OK 74136-1902** on the right *The last intersection is Richard Shinn Blvd* *If you reach E 61st St S, you've gone too far*	0.0 mi

These directions are subject to the Microsoft® Service Agreement and for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2009 NAVTEQ™, AND™.

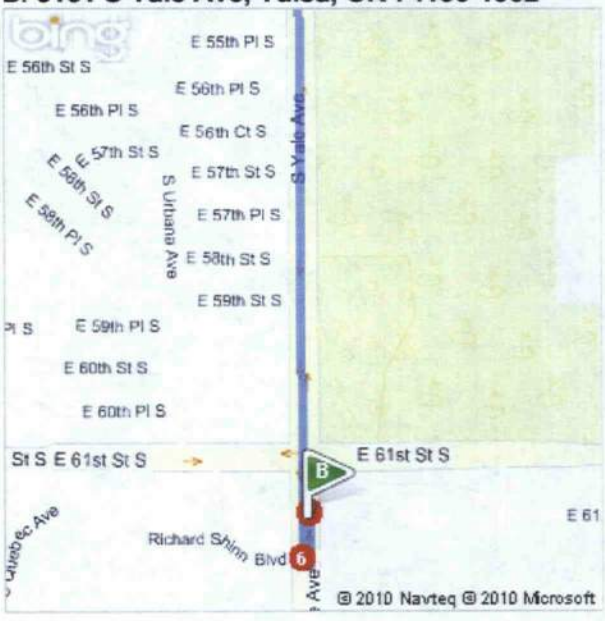
Route: **6.1 mi, 9 min**



This was your map view in the browser window.

A: **5304 S Lawton Ave, Tulsa, OK 74107-9428**

B: **6161 S Yale Ave, Tulsa, OK 74136-1902**



Bing Maps

A: **5304 S Lawton Ave, Tulsa, OK 74107-9428**
B: **5682 W Skelly Dr, Tulsa, OK 74107-9144**
Route: **3.5 mi, 6 min**

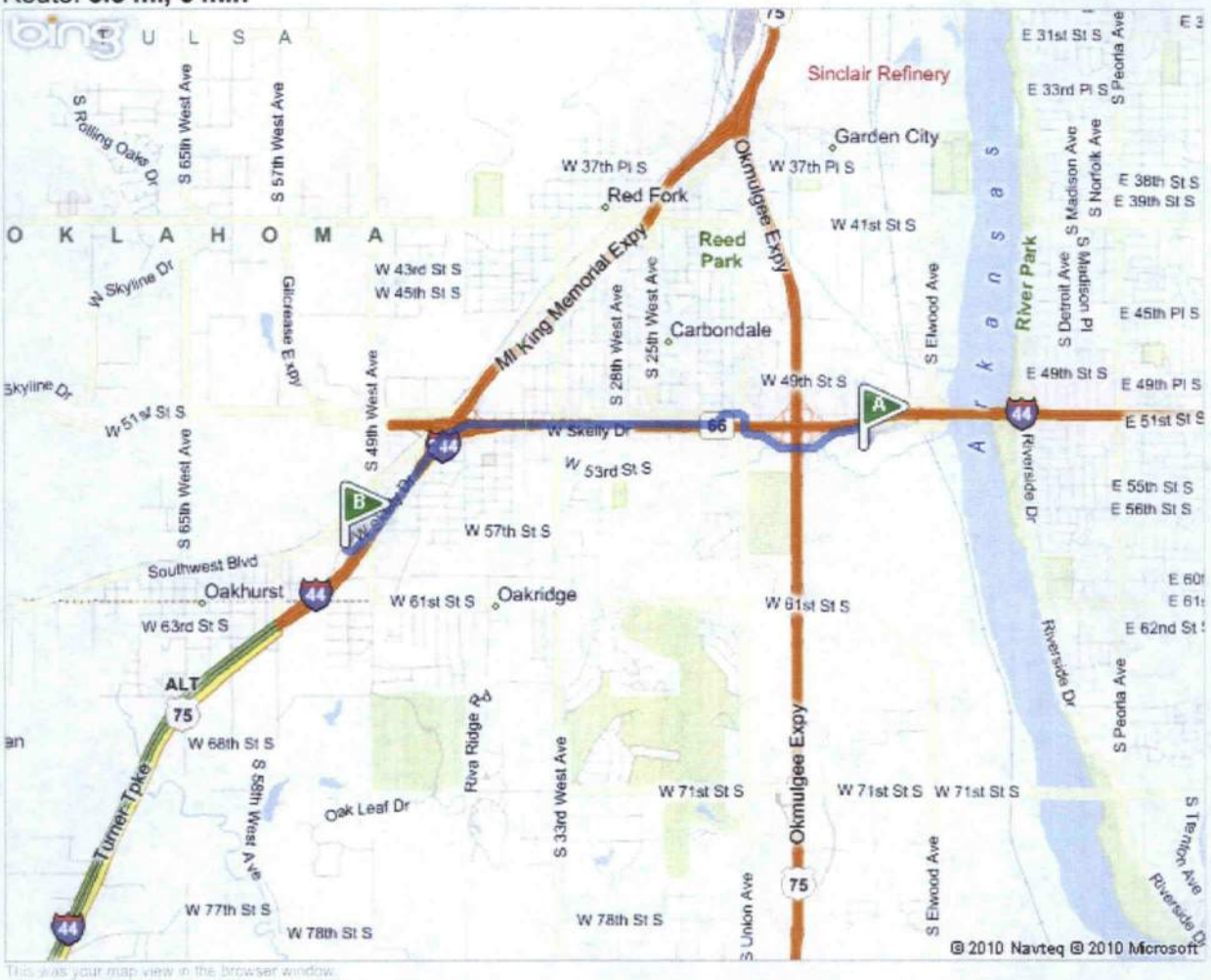
Limco Airepair to Concentra
MINOR emergencies MAP B

FREE! Use **Bing 411** to find movies, businesses & more: **800-BING-411**

A	**5304 S Lawton Ave, Tulsa, OK 74107-9428**	**A–B: 3.5 mi** 6 min
	1. Depart **S Lawton Ave W**	0.1 mi
⇦	2. Turn **left** onto **W Skelly Dr**	0.7 mi
⇨	3. Turn **right** onto **S Union Ave**	0.1 mi
⇦	4. Turn **left** onto **W 51st St S**	0.1 mi
↖	5. Take ramp **left** for **I-44 West / SR-66 West**	2.2 mi
↗	6. At exit **222A**, take ramp **right** and follow signs for **49th W. Ave**	0.2 mi
⇨	7. Turn **right** onto **S 49th West Ave**	0.1 mi
⇨	8. Turn **right** onto **W Skelly Dr**	0.0 mi
B	9. Arrive at **5682 W Skelly Dr, Tulsa, OK 74107-9144** on the left *The last intersection is S 49th West Ave*	0.0 mi

These directions are subject to the Microsoft® Service Agreement and for informational purposes only. No guarantee is made regarding their completeness or accuracy. Construction projects, traffic, or other events may cause actual conditions to differ from these results. Map and traffic data © 2009 NAVTEQ™, AND™.

Route: **3.5 mi, 6 min**



This was your map view in the browser window.

A: **5304 S Lawton Ave, Tulsa, OK 74107-9428**

B: **5682 W Skelly Dr, Tulsa, OK 74107-9144**

APPENDIX D

DCDMA & NDCA DRILLING SAFETY GUIDE

DRILLING SAFETY GUIDE

The Drilling Safety Guide has been prepared through the volunteer efforts of member delegations of the Diamond Core Drill Manufacturers Association (DCDMA) and the National Drilling Contractors Association (NDCA) and is published by the National Drilling Federation for the benefit of the drilling industries.

This guide contains suggested safety procedures. It is not intended to nor does it set forth any standard industry procedures or requirements, nor does it contain any procedures or requirements mandated by law. It is to be used as a guideline for the safe operation of drilling equipment. NDF, DCDMA and NDCA and their officers and members deny any liability for any injury to persons or property which may occur even if these procedures are properly followed. Further, neither the NDF, DCDMA nor the NDCA or their officers or members accept responsibility for the completeness of the guide or the applicability of the statements or procedures to the use of all drilling machines and tools in all environments. Many aspects of drilling safety cannot be expressed in detail and cannot be met by mechanical means, but can only be accomplished with the exercise of intelligence, care and common sense.

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2. Governmental Regulations

All local, state and federal regulations or restrictions, currently in effect or effected in the future, take precedence over the recommendations and suggestions which follow. Government regulations will vary from country to country and from state to state.

3. The Safety Supervisor

The safety supervisor for the drill crew will in most cases be the drill rig operator.

- The safety supervisor should consider the "responsibility" for safety and the "authority" to enforce safety to be a matter of first importance.
- The safety supervisor should be the leader in using proper personal safety gear and set an example in following the rules that are being enforced on others.
- The safety supervisor should enforce the use of proper personal protective safety equipment and take appropriate corrective action when proper personal protective safety equipment is not being used.
- The safety supervisor should understand that proper maintenance of tools and equipment and general "housekeeping" on the drill rig will provide the environment to promote and enforce safety.
- Before drilling is started with a particular drill, the safety supervisor must be assured that the operator (who may be the safety supervisor) has had adequate training and is thoroughly familiar with the drill rig, its controls and its capabilities.
- The safety supervisor should inspect the drill rig at least daily for structural damage, loose bolts and nuts, proper tension in chain drives, loose or missing guards or protective covers, fluid leaks, damaged hoses and/or damaged pressure gauges and pressure relief valves.
- The safety supervisor should check and test all safety devices such as emergency shut-down switches at least daily and preferably at the start of a drilling shift. Drilling should not be permitted until all emergency shut-down and warning systems are working correctly. Do not wire around, bypass or remove an emergency device.
- The safety supervisor should check that all gauges, warning

- The safety supervisor should assure that there is a first-aid kit on each drill rig and a fire extinguisher on each drill rig and on each additional vehicle and assure that they are properly maintained.
- The safety supervisor (and as many crew members as possible) should be well trained and capable of using first-aid kits, fire extinguishers and all other safety devices and equipment.
- The safety supervisor should maintain a list of addresses and telephone numbers of emergency assistance units (ambulance services, police, hospitals, etc.) and inform other members of the drill crew of the existance and location of the list.

4. Individual Protective Equipment

For most geotechnical, mineral and/or groundwater drilling projects, individual protective equipment should include a safety hat, safety shoes, safety glasses and close fitting gloves and clothing. The clothing of the individual drill rig worker is not generally considered protective equipment; however, your clothing should be close fitting but comfortable, without loose ends, straps, drow strings or belts or otherwise unfastened parts that might catch on some rotating or translating component of the drill rig. Rings and jewelry should not be worn during a work shift.

- Safety Head Gear. Safety hats (hard hats) should be worn by everyone working or visiting at or near a drilling site. All safety hats should meet the requirements of ANSI Z89.1. All safety hats should be kept clean and in good repair with the headband and crown straps properly adjusted for the individual drill rig worker or visitor.
- Safety Shoes or Boots. Safety shoes or boots should be worn by all drilling personnel and all visitors to the drill site that observe drilling operations within close proximity of the drill rig. All safety shoes or boots should meet the requirements of ANSI Z41.1
- Gloves. All drilling personnel should wear gloves for protection against cuts and abrasion which could occur while handling wire rope or cable and from contact with sharp edges and burrs on drill rods and other drilling or sampling tools. All gloves should be close fitting and not have large cuffs or loose ties which can catch on rotating or translating components of the drill rig.

5. Housekeeping On And Around The Drill Rig

The first requirement for safe field operations is that the safety supervisor understands and fulfills the responsibility for maintenance and "housekeeping" on and around the drill rig.

- Suitable storage locations should be provided for all tools, materials and supplies so that tools, materials and supplies can be conveniently and safely handled without hitting or falling on a member of the drill crew or a visitor.
- Avoid storing or transporting tools, materials or supplies within or on the mast (derrick) of the drill rig.
- Pipe, drill rods, casing, augers and similar drilling tools should be orderly stacked on racks or sills to prevent spreading, rolling or sliding.
- Penetration or other driving hammers should be placed at a safe location on the ground or be secured to prevent movement when not in use.
- Work areas, platforms, walkways, scaffolding and other accessways should be kept free of materials, debris and obstructions and substances such as ice, grease or oil that could cause a surface to become slick or otherwise hazardous.
- Keep all controls, control linkages, warning and operation lights and lenses free of oil, grease and/or ice.
- Do not store gasoline in any portable container other than a non-sparking, red container with a flame arrester in the fill spout and having the word "gasoline" easily visible.

6. Maintenance Safety

Good maintenance will make drilling operations safer. Also, maintenance should be performed safely.

- Wear safety glasses when performing maintenance on a drill rig or on drilling tools.
- Shut down the drill rig engine to make repairs or adjustments to a drill rig or to lubricate fittings (except repairs or adjustments that can only be made with the engine running). Take precautions to prevent accidental starting of an engine during maintenance by removing or tagging the ignition key.

• Replace all caps, filler plugs, protective guards or panels and high pressure hose clamps and chains or cables that have been removed for maintenance before returning the drill rig to service.

7. Safe Use Of Hand Tools

There are almost an infinite number of hand tools that can be used on or around a drill rig and in repair shops and more than an equal number of instructions for proper use. "Use the tool for its intended purpose" is the most important rule. The following are a few specific and some general suggestions which apply to safe use of several hand tools that are often used on and around drill rigs.

• When a tool becomes damaged, either repair it before using it again or get rid of it.

• When using a hammer, any kind of hammer for any purpose, wear safety glasses and require all others around you to wear safety glasses.

• When using a chisel, any kind of chisel, for any purpose, wear safety glasses and require all others around you to wear safety glasses.

• Keep all tools cleaned and orderly stored when not in use.

• Use wrenches on nuts – don't use pliers on nuts.

• Use screwdrivers with blades that fit the screw slot.

• When using a wrench on a tight nut – first use some penetrating oil, use the largest wrench available that fits the nut, when possible pull on the wrench handle rather than pushing, and apply force to the wrench with both hands when possible and with both feet firmly placed. Don't push or pull with one or both feet on the drill rig or the side of a mud pit or some other blocking-off device. Always assume that you may lose your footing – check the place where you may fall for sharp objects.

• Keep all pipe wrenches clean and in good repair. The jaws of pipe wrenches should be wire brushed frequently to prevent an accumulation of dirt and grease which would otherwise build up and cause wrenches to slip.

• Never use pipe wrenches in place of a rod holding device.

• Replace hook and heel jaws when they become visibly worn.

safe working area. Drilling should not be commenced when tree limbs, unstable ground or site obstructions cause unsafe tool handling conditions.

9. Start Up

- All drill rig personnel and visitors should be instructed to "stand clear" of the drill rig immediately prior to and during starting of an engine.
- Make sure all gear boxes are in neutral, all hoist levers are disengaged, all hydraulic levers are in the correct nonactuating positions and the cathead rope is not on the cathead before starting a drill rig engine.
- Start all engines according to the manufacturer's manual.

10. Safety During Drilling Operations

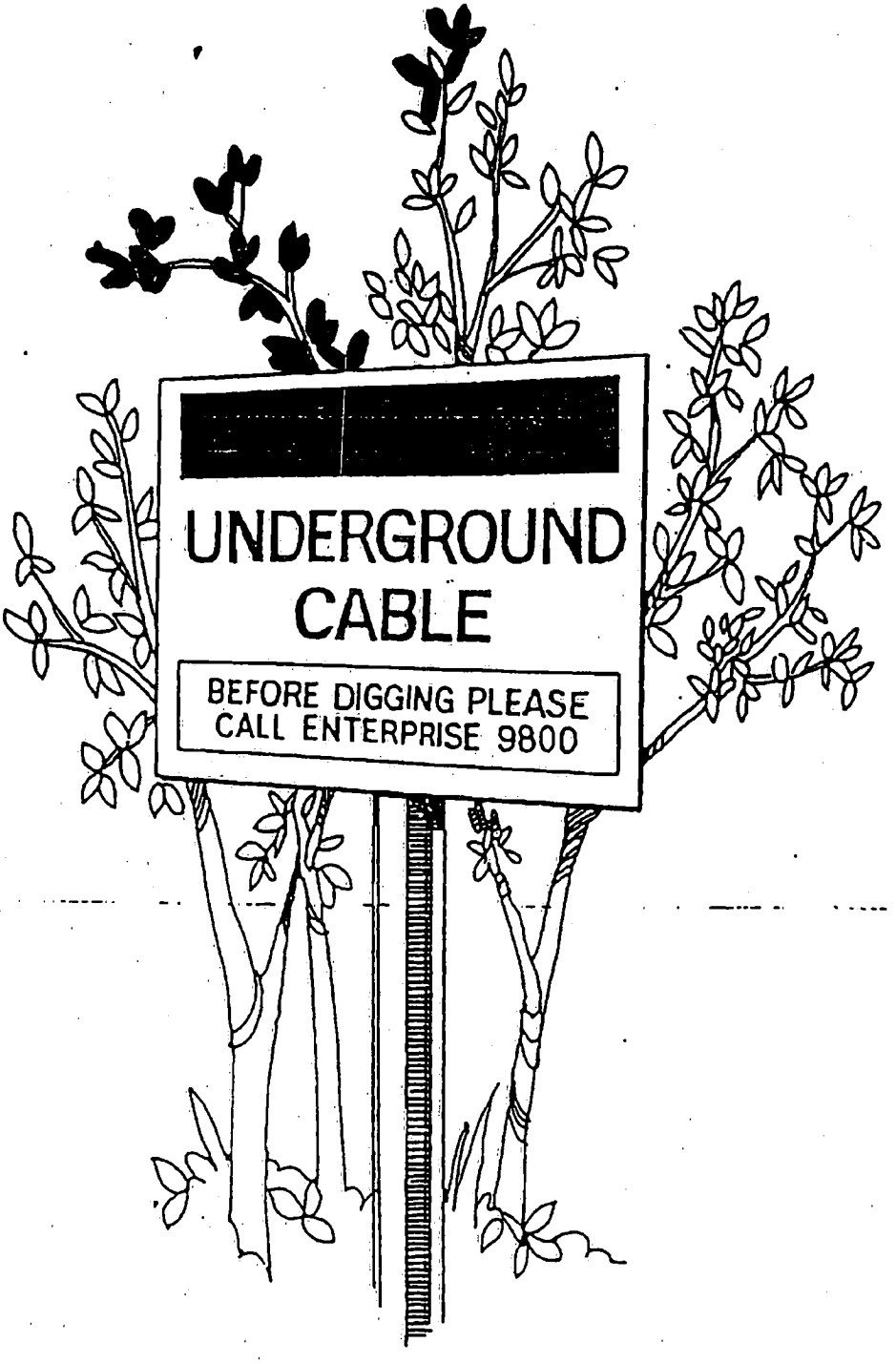
Safety requires the attention and cooperation of every worker and site visitor.

- Do not drive the drill rig from hole to hole with the mast (derrick) in the raised position.
- Before raising the mast (derrick) look up to check for overhead obstructions. (Refer to Section 11 on Overhead and Buried Utilities.)
- Before raising the mast (derrick), all drill rig personnel (with exception of the operator) and visitors should be cleared from the areas immediately to the rear and the sides of the mast. All drill rig personnel and visitors should be informed that the mast is being raised prior to raising it.
- Before the mast (derrick) of a drill rig is raised and drilling is commenced, the drill rig must be first leveled and stabilized with leveling jacks and/or solid cribbing. The drill rig should be releveled if it settles after initial set up. Lower the mast (derrick) only when the leveling jacks are down and do not raise the leveling jack pods until the mast (derrick) is lowered completely.
- Before starting drilling operations, secure and/or lock the mast (derrick) if required according to the drill manufacturer's recommendations.

- When working on a derrick platform, use a safety belt and a lifeline. The safety belt should be at least 4 in. (100 mm) wide and should fit snugly but comfortably. The lifeline, when attached to the derrick, should be less than 6 ft. (2 m) long. The safety belt and lifeline should be strong enough to withstand the dynamic force of a 250 lb. (115 kg) weight (contained within the belt) falling 6 ft. (2 m).
- When climbing to a derrick platform that is higher than 20 ft. (6 m), a safety climbing device should be used.
- When a rig worker is on a derrick platform, the lifeline should be fastened to the derrick just above the derrick platform and to a structural member that is not attached to the platform or to other lines or cables supporting the platform.
- When a rig worker first arrives at a derrick platform, the platform should immediately be inspected for broken members, loose connections and loose tools or other loose materials.
- Tools should be securely attached to the platform with safety lines. Do not attach a tool to a line attached to your wrist or any other part of your body.
- When you are working on a derrick platform, do not guide drill rods or pipe into racks or other supports by taking hold of a moving hoist line or a traveling block.
- Loose tools and similar items should not be left on the derrick platform or on structural members of the derrick.
- A derrick platform over 4 ft. (1.2 m) above ground surface should have toe boards and safety railing that are in good condition.
- Workers on the ground or the drilling floor should avoid being under rig workers on elevated platforms, whenever possible.

Be careful when lifting heavy objects:

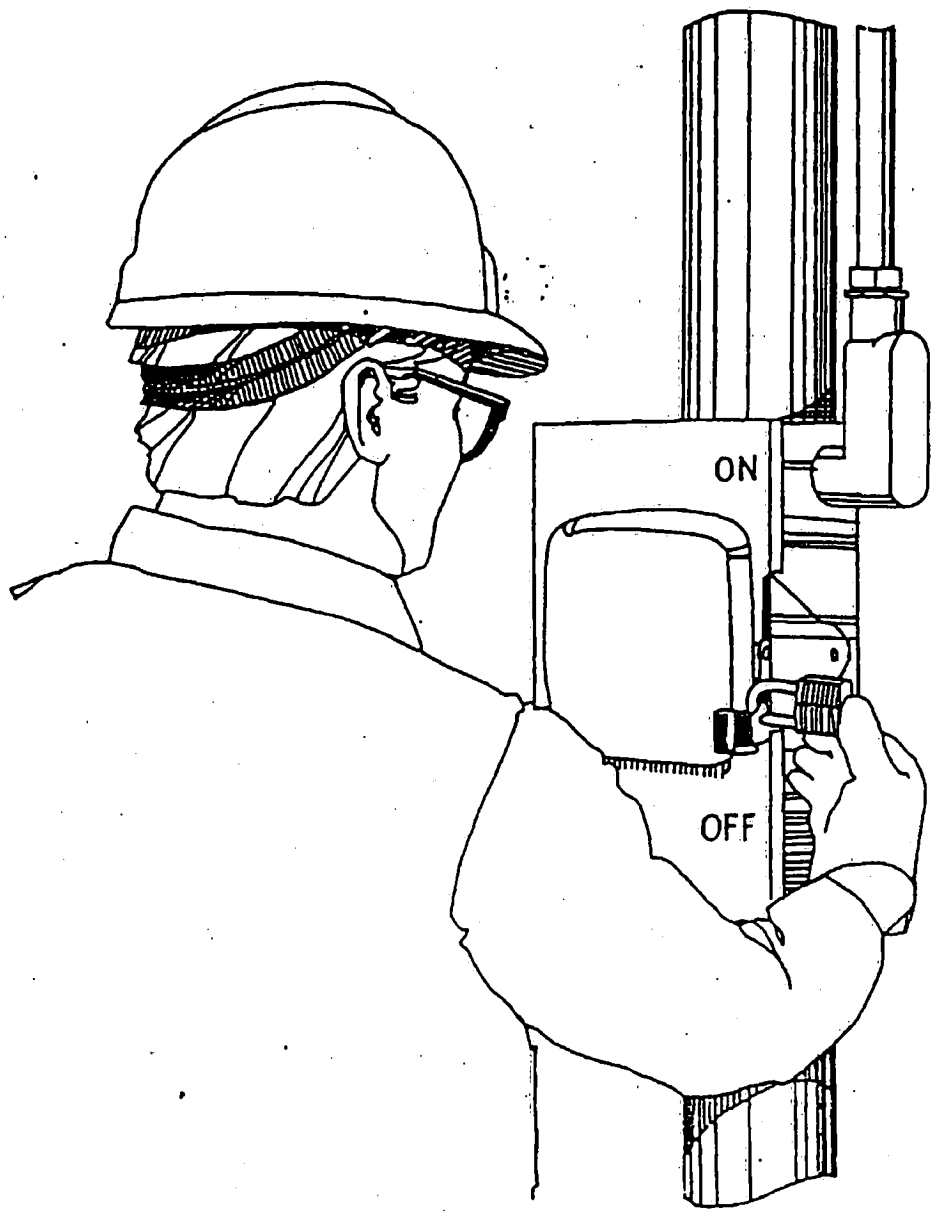
- Before lifting any object without using a hoist, make sure that the load is within your personal lifting capacity. If it is too heavy, ask for assistance.
- Before lifting a relatively heavy object, approach the object by bending at the knees, keeping your back vertical and unarched while obtaining a firm footing. Grasp the object firmly with both hands and stand slowly and squarely while keeping your back vertical and unarched. In other words, perform the lifting with the muscles in your legs, not with the muscles in your lower back.



• Watch for sagging power lines before entering a site. Do not lift power lines to gain entrance. Call the utility and ask them to lift or raise the lines or deenergize (turn off) the power.

• Before raising the drill rig mast (derrick) on a site in the vicinity of power lines, walk completely around the drill rig. Determine what the minimum distance from any point on the drill rig to the nearest

positions are well lit without shadows or blind spots. The following specific recommendations emphasize the safe use of electricity during land-based drilling operations:



- Before working on an electrical power or lighting system, lock-out the main panel box with your own lock and keep the key on your person at all times.
- All wiring should be installed using high quality connections, fixtures and wire, insulated and protected with consideration of the

13. React To Contact With Electricity

If a drill rig makes contact with electrical wires, it may or may not be insulated from the ground by the tires of the carrier. Under either circumstance the human body, if it simultaneously comes in contact with the drill rig and the ground, will provide a conductor of the electricity to the ground. Death or serious injury can be the result. If a drill rig or a drill rig carrier makes contact with overhead or underground electrical lines:

- Under most circumstances, the operator and other personnel on the seat of the vehicle should remain seated and not leave the vehicle. Do not move or touch any part, particularly a metallic part, of the vehicle or the drill rig.
- If it is determined that the drill rig should be vacated, then all personnel should jump clear and as far as possible from the drill. Do not step off – jump off, and do not hang on to the vehicle or any part of the drill when jumping clear.
- If you are on the ground, stay away from the vehicle and the drill rig, do not let others get near the vehicle and the drill rig and seek assistance from local emergency personnel such as the police or a fire department.
- When an individual is injured and in contact with the drill rig or with power lines, attempt rescue with extreme caution. If a rescue is attempted, use a long, dry, unpainted piece of wood or a long, dry, clean rope. Keep as far away from the victim as possible and do not touch the victim until the victim is completely clear of the drill rig or electrical lines.
- When the victim is completely clear of the electrical source and is unconscious and a heart beat (pulse) cannot be detected, begin cardiopulmonary resuscitation (CPR) immediately.

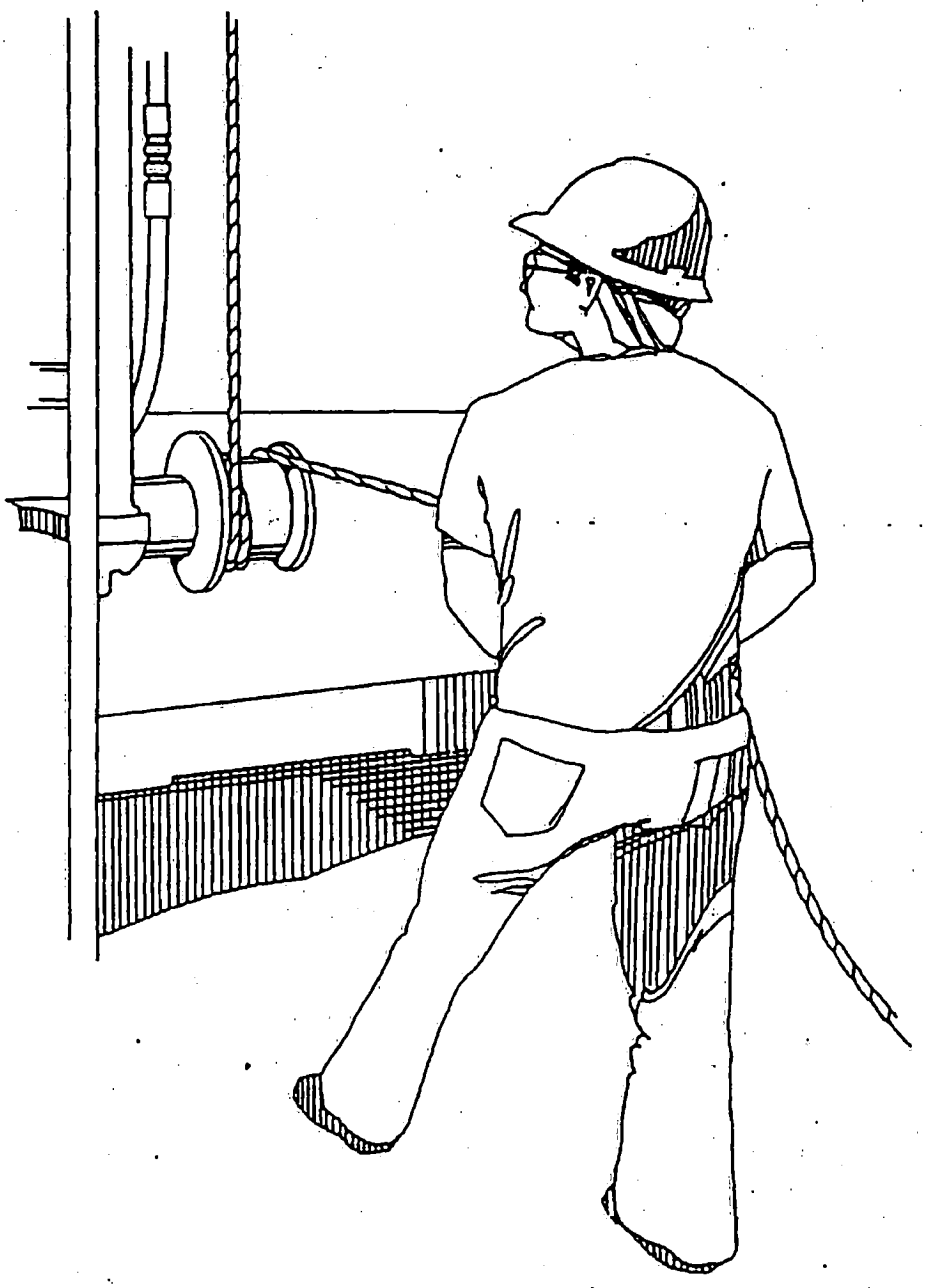
14. Safe Use Of Wire Line Hoists, Wire Rope And Hoisting Hardware

The use of wire line hoists, wire rope and hoisting hardware should be as stipulated by the American Iron and Steel Institute Wire Rope Users Manual.

sheaves according to the manufacturer's recommendations.

- When stuck tools or similar loads cannot be raised with a hoist, disconnect the hoist line and connect the stuck tools directly to the feed mechanism of the drill. Do not use hydraulic leveling jacks for added pull to the hoist line or the feed mechanism of the drill.
- When attempting to pull out a mired down vehicle or drill rig carrier, only use a winch on the front or rear of the vehicle and stay as far as possible away from the wire rope. Do not attempt to use tool hoists to pull out a mired down vehicle or drill rig carrier.
- Minimize shock loading of a wire rope – apply loads smoothly and steadily.
- Avoid sudden loading in cold weather.
- Never use frozen ropes.
- Protect wire rope from sharp corners or edges.
- Replace faulty guides and rollers.
- Replace worn sheaves or worn sheave bearings.
- Replace damaged safety latches on safety hooks before using.
- Know the safe working load of the equipment and tackle being used. Never exceed this limit.
- Clutches and brakes of hoists should be periodically inspected and tested.
- Know and do not exceed the rated capacity of hooks, rings, links, swivels, shackles and other lifting aids.
- Always wear gloves when handling wire ropes.
- Do not guide wire rope on hoist drums with your hands.
- Following the installation of a new wire rope, first lift a light load to allow the wire rope to adjust.
- Never carry out any hoisting operations when the weather conditions are such that hazards to personnel, the public or property are created.
- Never leave a load suspended in the air when the hoist is unattended.
- Keep your hands away from hoists, wire rope, hoisting hooks, sheaves and pinch points as slack is being taken up and when the load is being hoisted.
- Never hoist the load over the head, body or feet of any personnel.

• Never operate a cathead (or perform any other task around a drill rig) with loose unbuttoned or otherwise unfastened clothing or when wearing gloves with large cuffs or loose straps or lacings.



• Do not use a rope that is any longer than necessary. A rope that is too long can form a ground loop or otherwise become entangled with the operator's legs.

- Only use the manufacturer's recommended method of securing the auger to the power coupling. Do not touch the coupling or the auger with your hands, a wrench or any other tools during rotation.
- Whenever possible, use tool hoists to handle auger sections.
- Never place hands or fingers under the bottom of an auger section when hoisting the auger over the top of the auger section in the ground or other hard surfaces such as the drill rig platform.
- Never allow feet to get under the auger section that is being hoisted.
- When rotating augers, stay clear of the rotating auger and other rotating components of the drill rig. Never reach behind or around a rotating auger for any reason whatever.
- Use a long-handled shovel to move auger cuttings away from the auger. Never use your hands or feet to move cuttings away from the auger.
- Do not attempt to remove earth from rotating augers. Augers should be cleaned only when the drill rig is in neutral and the augers are stopped from rotating.

17. Safety During Rotary And Core Drilling

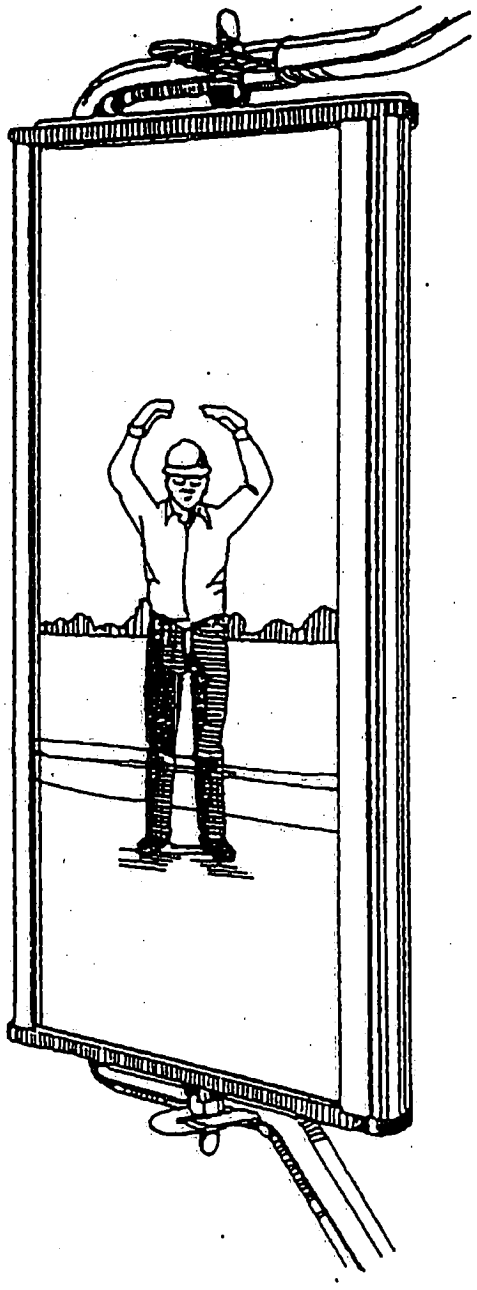
Rotary drilling tools should be safety checked prior to drilling:

- Water swivels and hoisting plugs should be lubricated and checked for "frozen" bearings before use.
- Drill rod chuck jaws should be checked periodically and replaced when necessary.
- The capacities of hoists and sheaves should be checked against the anticipated weight to the drill rod string plus other expected hoisting loads.

Special precautions that should be taken for safe rotary or core drilling involve chucking, joint break, hoisting and lowering of drill rods:

- Only the operator of the drill rig should brake or set a manual chuck so that rotation of the chuck will not occur prior to removing the wrench from the chuck.
- Drill rods should not be broked during lowering into the hole with drill rod chuck jaws.

• Watch for low hanging electrical lines, particularly at the entrances to drilling sites or restaurants, motels or other commercial sites.



• Never travel on a street, road or highway with the mast (derrick) of the drill rig in the raised or partially raised position.

• Remove all ignition keys when a drill rig is left unattended.

channels or ditches squarely, not at an angle.

- Use the assistance of someone on the ground as a guide when lateral or overhead clearance is close.
- After the drill has been moved to a new drilling site, set all brakes and/or locks. When grades are steep, block the wheels.
- Never travel off-road with the mast (derrick) of the drill rig in the raised or partially raised position.

21. Tires, Batteries And Fuel

Tires on the drill rig must be checked daily for safety and during extended travel for loss of air and they must be maintained and/or repaired in a safe manner. If tires are deflated to reduce ground pressure for movement on soft ground, the tires should be reinflated to normal pressures before movement on firm or hilly ground or on streets, roads and highways. Under inflated tires are not as stable on firm ground as properly inflated tires. Air pressures should be maintained for travel on streets, roads and highways according to the manufacturer's recommendations. During air pressure checks, inspect for:

- Missing or loose wheel lugs.
- Objects wedged between duals or embedded in the tire casing.
- Damaged or poorly fitting rims or rim flanges.
- Abnormal or uneven wear and cuts, breaks or tears in the casing.

The repair of truck and off-highway tires should only be made with required special tools and following the recommendations of a tire manufacturer's repair manual.

Batteries contain strong acid. Use extreme caution when servicing batteries.

- Batteries should only be serviced in a ventilated area while wearing safety glasses.
- When a battery is removed from a vehicle or service unit, disconnect the battery ground clamp first.
- When installing a battery, connect the battery ground clamp last.
- When charging a battery with a battery charger, turn off the power source to the battery before either connecting or disconnecting charger leads to the battery posts. Cell caps should be loosened

22. First Aid

At least one member of the drill crew, and if only one, preferably the drilling and safety supervisor, should be trained to perform first aid. First aid is taught on a person-to-person basis, not by providing or reading a manual. Manuals should only provide continuing reminders and be used for reference. It is suggested that courses provided or sponsored by the American Red Cross or a similar organization would best satisfy the requirements of first aid training for drill crews.

For drilling operations it is particularly important that the individual responsible for first aid should be able to recognize the symptoms and be able to provide first aid for electrical shock, heart attack, stroke, broken bones, eye injury, snake bite and cuts or abrasions to the skin. Again, first aid for these situations is best taught to drill crew members by instructors qualified by an agency such as the American Red Cross.

A first aid kit should be available and well maintained on each drill site.

23. Drill Rig Utilization

Do not attempt to exceed manufacturers' ratings of speed, force, torque, pressure, flow, etc. Only use the drill rig and tools for the purposes which they are intended and designed.

24. Drill Rig Alterations

Alterations to a drill rig or drilling tools should only be made by qualified personnel and only after consultation with the manufacturer.

OPERATING INSTRUCTIONS

I. SET-UP PROCEDURES

1. Be sure to check with local utility companies regarding the locations of any underground utilities.
2. Check overhead for power lines and other obstructions that would cause a hazard when raising the mast.
3. Start the engine and allow time for warm-up.
4. Check function of both safety kill switches as follows:
   a) There is one safety kill switch, located on front of the control panel; and two safety shutdown tape switches, one on the left side of the control panel and the other located across the rear of the truck bed.
   b) Push the safety kill switch that is located on the panel. Verify engine shutdown.
   c) Pull this switch back out, restart the engine, and push in each of the shut down switches. Verify engine shutdown.

> WARNING: DO NOT PROCEED WITH THE DRILLING OPERATION IF THE SAFETY KILL SWITCHES ARE NOT FUNCTIONAL!

II. HYDRAULIC JACKS

1. Each jack is controlled by a singlesolenoid valve operated by a rocker switch.
2. Before extending the jacks, make sure they are clear of any obstructions.
3. Call "clear" to notify others that the jacks will be actuated.
4. Pushing in at bottom of rocker switch lowers the jacks and pushing in at top retracts them.
5. When the valves are in neutral the jacks are locked in place.
6. The jack valves have internal pilot-operated checks to prevent tampering when the engine is shut down.
7. Be sure that the jacks are fully retracted before moving the vehicle.

III. HYDRAULIC SLIDE BASE

1. The slide base is operated by a single control solinoid valve, activated by a rocker switch.
2. Pushing in at bottom of rocker switch extends the drill 18" to the rear.

3. Pushing in at top of rocker switch retracts the drill.
4. Drilling work is performed with the slide base extended, so that upon retraction the sheavers will align with the hole.

IV. HYDRAULIC WINCHES

1. Inspect all cables and hooks before using the winches. Wear gloves when handling the cables.
2. Each winch is controlled by a single hydraulic pilot operated valve.
3. Pulling up on the pilot valve will cause the winch to raise the load.
4. Pushing down on the pilot valve will cause the winch to lower the load.
5. Winches have a one way safety brake which locks to hold the load in case of an hydraulic failure.

> WARNING:
> PROPER CABLE ORIENTATION MUST BE MAINTAINED FOR THE SAFETY BRAKE TO FUNCTION PROPERLY.

V. MAST

1. The mast and feed frame are controlled by a single solinoid valve, operated by a rocker switch.
2. Pushing in at bottom of rocker switch will raise the mast and feed frame.
3. Pushing in at top of rocker switch will lower the mast and feed frame.
4. The mast and feed frame pivot together. When it is desired to raise the feed frame without the mast, pull out the two pins (located near the top of the feed frame) that pin the mast and feed frame together. The feed frame will then raise and the mast will continue to rest on the headache rack.

> WARNING:
> BEFORE RAISING THE MAST, MAKE SURE THAT THE WINCH AND CATHEAD LINES ARE LOOSE AND THAT THERE ARE NO OVERHEAD POWER LINES OR OBSTRUCTIONS.

VI. CATHEAD

1. The cathead is driven by an hydraulic motor controlled by a solinoid hydraulic valve, operated by a detended rocker switch..
2. Disengage the clutch and put the main transmission in neutral (never operate the cathead and rotary simultaneously).

3. Select the appropriate cathead speed by adjusting engine RPM.
4. Be sure that the rope is loose on the cathead drum and push in at top of rocker switch.

VII. WATER PUMP

1. The water pump is controlled by a hydraulic friction-hold pilot operated control valve.
2. The pilot valve controls the OFF - ON and direction of the flow and speed.
   a) Pushing down on the pilot valve lever engages the pump in the forward direction.
   b) Pulling up on the pilot valve lever engages the pump in the reverse direction.
3. Water pump speed can be controlled by position of the friction-hold pilot valve.

VIII. ROTARY

1. The rotary has five forward speeds and one reverse speed.
2. Rotary speeds are selected by shifting the drill transmission to the appropriate gear.
3. Transmission is a manual shift.
4. Making sure the spindle is clear of equipment and personnel, shift transmission from neutral to desired gear.
5. Once engaged, the rotary speed can then be controlled by the throttle.

IX. FEED

1. The speed system is controlled by an hydraulicpilot operated control valve.
2. Feed speed can be controlled by the pilot control valve handle position from 0 to maximum.
3. Bit pressure is set by separate pressure control valve. Bit pressure setting will not affect retract speed or pressure.
4. Set down pressure required with bit pressure valve. The hydraulic pump will automatically reduce flow to only the amount required to maintain bit pressure setting, keeping heat build-up to a minimum.

IMPORTANT

When ordering parts :

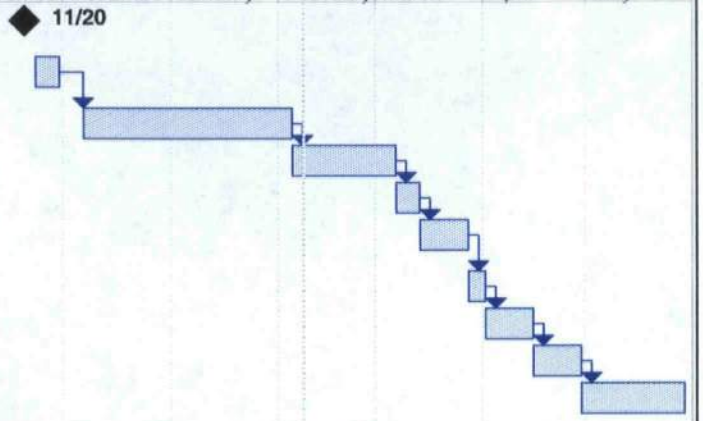
- Always give the serial number of your drill rig. This will assure shipping of the correct parts. Failing to give the serial number may result in a delay in processing your order.
- Furnish entire part number of part desired and give a description exactly as shown on the parts diagram.
- Always state exactly how many parts wanted.
- When ordering hydraulic valves, always be certain to give the functions, (i.e. waterpump, jack, jack, jack.) This will assure the correct parts.

ATTACHMENT E

PROJECT SCHEDULE

Site Characterization Schedule for the Limco Airepair - Tulsa, OK

ID	Task Name	Duration	Start	Finish
1	Effective Date of the Memoradum of Agreement and Consent Order (MACO	0 days	Fri 11/20/09	Fri 11/20/09
2	Obtain Property Access Agreement from Landowner	7 days	Mon 11/23/09	Sun 11/29/09
3	Prepare and Submit Work Plan	60 days	Mon 12/7/09	Thu 2/4/10
4	ODEQ Review of Work Plan	30 days	Fri 2/5/10	Sat 3/6/10
5	Obtain ODEQ Approval of Work Plan	7 days	Sun 3/7/10	Sat 3/13/10
6	Prepare and Coordinate for the Implementation of the Sampling and Analysis Plan (SAP)	14 days	Sun 3/14/10	Sat 3/27/10
7	Inform ODEQ Prior to Initiation of Field Work	5 days	Sun 3/28/10	Thu 4/1/10
8	Implement SAP Requirements in the Field	14 days	Fri 4/2/10	Thu 4/15/10
9	Obtain Analytical Results	14 days	Fri 4/16/10	Thu 4/29/10
10	Prepare Site Characterization Report and Submit to ODEQ	30 days	Fri 4/30/10	Sat 5/29/10



Project: Schedule
Date: Mon 2/8/10

Task
Split
Progress
Milestone
Summary
Project Summary
External Tasks
External Milestone
Deadline

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

RECEIVED
APR 15 2011
LAND PROTECTION DIVISION
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

EPA I.D. No. OKR000000612

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
✓				2011

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15251	ARR000016733	ARD981057870	5274	S02
15189	ARR000016733	ARD981057870	4594	S01
24432	ARR000016733	ARD981057870	2058	S02

Total amount **this page** in **Pounds** 11926

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date April 14, 2011

Typed Name of Authorized Agent Bill Williams

DOCUMENT TRANSMITTAL/TRACKING LOG
LAND PROTECTION DIVISION

Date Document Received: 04.18.11

Log in #: 203673

Facility (not Consultant): Linco Airepair, Inc.

EPA / DEQ ID#: _____

Type/Name of Document: Quarterly Report - March 2011

_____

Number of Copies Received: 1

Check Attached? Yes _____ No X

If yes, amount _____

Check received by which Finance Employee _____

Date check sent to Finance: _____

Document(s) given to which facility Manager: Sherry

Date: 04.18.11 mpm
Signed

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

EPA I.D. No.

OKR000000612

Disposal Plan No.: 728097

RECEIVED
OCT 07 2011
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☑	☐	2011

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15251	ARR000016733	ARD981057870	4475	S02
15189	ARR000016733	ARD981057870	10121	S01
24432	ARR000016733	ARD981057870	5988	S02

Total amount **this page** in **Pounds** 20584

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent _____ Date October 05, 2011

Typed Name of Authorized Agent Bill Williams

LIMCO Airepair, Inc.

RECEIVED
OCT 07 2011
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

October 05, 2011

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

EPA I.D. No.

OKR000000612

Disposal Plan No.: 728097

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105 and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

RECEIVED
JAN 24 2012

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☐	☑	2011

Page 1 of 1

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped In Pounds	5 TSDF Handling Codes (required) and Comments
15251	ARR000016733	ARD981057870	4418	S02
15189	ARR000016733	ARD981057870	7664	S01
24432	ARR000016733	ARD981057870	1084	S02

Total amount **this page** in **Pounds** 13,166

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date January 23, 2012

Typed Name of Authorized Agent Bill Williams

LIMCO Airepair, Inc.

RECEIVED
JAN 24 2012
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

January 23, 2012

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

LIMCO Airepair, Inc.

RECEIVED
MAY 24 2012
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

May 21, 2012

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☑	☐	☐	☐	2012

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

RECEIVED
MAY 21 2012
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	TSDF Handling Codes (required) and Comments
15251	ARR000016733	ARD981057870	7803	S02
15189	ARR000016733	ARD981057870	1836	S01
24432	ARR000016733	ARD981057870	918	S02
15251	ARR000016733	ARD069748192	418	S02

Total amount **this page** in **Pounds** 10,975

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent _____ Date May 21, 2012

Typed Name of Authorized Agent Bill Williams

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

7011 1570 0000 7451 3822

RECEIVED
DEC 08 2011
ENVIRONMENTAL PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

OKR000000612

Sent To: LIMCO AIREPAIR, INC.

Street, Apt or PO Box: BILL WILLIAMS
5304 S. LAWTON

City, State: TULSA, OK 74107

PS Form 3 ... tions

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A record of delivery kept by the Postal Service for two years

Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail® or Priority Mail®.
- Certified Mail is *not* available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

OKR000000612
LIMCO AIREPAIR, INC.
BILL WILLIAMS
5304 S. LAWTON
TULSA, OK 74107

RECEIVED
DEC 13 2011
LAND PROTECTION DIVISION
DEPT OF ENVIRONMENT

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by (Printed Name) M. Raimondi
C. Date of Delivery 12-8-11

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7011 1570 0000 7451 3822

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

Department of Environmental Quality
Land Protection Division
707 N. Robinson, P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677
Attn: Michele W.

RECEIVED
FEB 07 2012
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DECLARATION OF ELECTRONIC FILING OF THE 2011 ANNUAL HAZARDOUS WASTE REPORT

For the calendar year January 1, 2011, through December 31, 2011

EPA ID: OKR000000612

Site/Company Name: LIMCO AIREPAIR, INC.

Site Address: 5304 S. LAWTON

City: TULSA State: OK Zip: 74107

Mailing Address: 5304 S. LAWTON

City: TULSA State: OK Zip: 74107

Contact Name: BILL WILLIAMS Phone No: 9184454300 Ext:

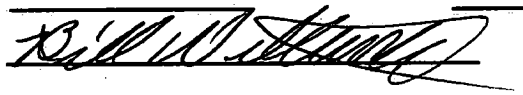
Contact Title: DIRECTOR OF FACILITIES

Part I - Declaration of Filer

I certify under penalty of law that the information shown on my 2011 Hazardous Waste Report, which I filed electronically, and that this document and all attachments were prepared under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted, is correct and current. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for known violations.

Part II- Signature of Certification

Last Name: WILLIAMS First Name: BILL Title: DIRECTOR OF FACILITIES

Signature:  Date: 01/20/2012

Part III - Method of File Transmittal

___CD

__X__ARM Web Site

** Note: This is not the 2011 Annual Hazardous Waste Report. Only file this form if you submitted your 2011 Annual Hazardous Waste Report electronically. This form alone does not constitute submittal of the 2011 Hazardous Waste Report but is required for all methods of electronic submission of the report.

Submit Date: 01/20/2012

SEND COMPLETED FORM TO: The Appropriate State or EPA Regional Office	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM (2011)**
1. Reason for Submittal MARK ALL BOX(ES) THAT APPLY	**Reason for Submittal:** ☐ To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location) ☐ To provide Subsequent Notification of Regulated Waste Activity (to update site identification information). ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application. ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____). ☒ As a component of the Hazardous Waste Report. (If marked, see sub-bullet below) ☒ Site was a TSD facility and/or generator of >1,000 kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)
2. Site EPA ID Number	**EPA ID Number:** OKR000000612
3. Site Name	**Name:** LIMCO AIREPAIR, INC.
4. Site Location Information	**Street Adress:** 5304 S. LAWTON **City, Town, or Village:** TULSA **County:** TULSA **State:** OK **Country** US **Zip Code:** 74107
5. Site Land Type	☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other
6. NAICS Code(s) for the Site	**A.** 333415 **B.** **C.** **D.**
7. Site Mailing Address	**Street or P. O. Box:** 5304 S. LAWTON **City, Town, or Village:** TULSA **State:** OK **Country:** US **Zip Code:** 74107
8. Site Contact Person	**First Name:** BILL **MI:** **Last Name:** WILLIAMS **Title:** DIRECTOR OF FACILITIES **Street or P. O. Box:** 5304 S. LAWTON **City, Town, or Village:** TULSA **State:** OK **Country:** US **Zip Code:** 74107 **Email :** billw@limcoairepair.com **Phone:** 9184454300 **Ext:** **Fax:**
9. Operator and Legal Owner of the Site	**A. Name of Site's Owner:** LIMCO AIREPAIR, INC. **Date Became Owner:** 10/01/1995 **Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other **Street or P. O. Box:** 5304 S. LAWTON **City, Town, or Village:** TULSA **Phone** **State:** OK **Country:** US **Zip Code:** 74107
	B. Name of Site's Operator: Limco Airepair, Inc. **Date Became Operator:** 10/01/1995 **Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

10. Type of Regulated Waste Activity
Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities; Complete all parts 1-7.

Y☒ N☐ **1. Generator of Hazardous Waste**
If Yes, choose only one of the following - a, b, or c.

- ☒ a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs./mo.) or more of hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs./mo) of acute hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lbs./mo) of acute hazardous spill cleanup
- ☐ b. SQG:. 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or
- ☐ c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

If "Yes" above, indicate other generator activities.

Y☐ N☒ d Short-Term Generator (generate from a short-term or onetime event and not from on-going processes). If "Yes", provide an explanation in the Comments

Y☐ N☒ e. United States Importer of Hazardous Waste

Y☐ N☒ f. Mixed Waste (hazardous and radioactive) Generator

Y☐ N☒ **2. Transporter of Hazardous Waste**
If Yes, mark all that apply.

- ☐ a. Transporter
- ☐ b. Transfer Facility (at your site)

Y☐ N☒ **3. Treater, Storer, or Disposer of Hazardous Waste (at your site)**
Note: A hazardous waste permit is required for this activity.

Y☐ N☒ **4. Recycler of Hazardous Waste (at your site)**

Y☐ N☒ **5. Exempt Boiler and/or Industrial Furnace**
If Yes, mark each that applies.

- ☐ a. Small Quantity On-site Burner Exemption
- ☐ b. Smelting, Melting, and Refining Furnace Exemption

Y☐ N☒ **6. Underground Injection Control**

Y☐ N☒ **7. Receives Hazardous Waste from Off-site**

B. Universal Waste Activities; Complete all parts 1-2.

Y☐ N☒ **1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site.**
If "Yes", mark all boxes that apply:

- a. Batteries ☐
- b. Pesticides ☐
- c. Mercury containing equipment ☐
- d. Lamps ☐
- e. Other (specify) _____ ☐
- f. Other (specify) _____ ☐
- g. Other (specify) _____ ☐

Y☐ N☒ **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this

C. Used Oil Activities; Complete all parts 1-4.

Y☐ N☒ **1. Used Oil Transporter**
If Yes, mark each that applies.

- ☐ a. Transporter
- ☐ b. Transfer Facility

Y☐ N☒ **2. Used Oil Processor and/or Re-refiner**
If Yes, mark each that applies.

- ☐ a. Processor
- ☐ b. Re-refiner

Y☐ N☒ **3. Off-Specification Used Oil Burner**

Y☐ N☒ **4. Used Oil Fuel Marketer**
If Yes, mark each that applies.

- ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
- ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

D. **Eligible Academic Entities with Laboratories-Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K**

You must check with your State to determine if you are eligible to manage laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K

☐ 1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories
See the item-by-item instructions for definitions of types of eligible academic entities. Mark all that apply:

- ☐ a. College or University
- ☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university
- ☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

☐ 2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

11. Description of Hazardous Wastes

A. Waste Codes for Federally Regulated Hazardous Wastes.

Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D001, D002, D003, D006, D007, D035, D040, F001, F003, F005

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes.

Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

12. Notification of Hazardous Secondary Material (HSM) Activity

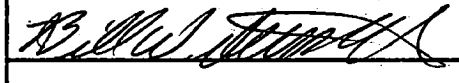
Y☐ N☒ Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?

If "Yes", you must fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.

13. Comments

14. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Operator, Owner, or an Authorized Representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	BILL WILLIAMS, DIRECTOR OF FACILITIES	01/20/2012

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER

SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

US ENVIRONMENTAL PROTECTION AGENCY

2011 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining on page 19 of the instructions end forms booklet before completing this form

SEC. 1

A. Waste description
WASTE PAINT AND SOLVENT

B. EPA hazardous waste code
D001 D035 F003 F005

C. State hazardous waste code

D. Source code G06
Management method code for source code G25

E. Form code
W209

F. Quantity generated in 2011 23,998.00
UOM POUNDS
Density ☐ 1 lbs/gal ☐ 2 sg

G. Waste minization code
Y

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1
☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Quantity treated, disposed, or recycled on site in 2011
ON-SITE PROCESS 1		
ON-SITE PROCESS 2		

SEC. 3

A. Was any of this waste shipped off site in 2011 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2011
SITE 1	ARD981057870	H061	23998.00
SITE 2			
SITE 3			

Comments:

IMPLEMENTED TRAINING & WASTE SEGREGATION POLICIES

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER

SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

US ENVIRONMENTAL PROTECTION AGENCY

2011 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining on page 19 of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
WASTE TCE FROM PARTS DEGREASER

B. EPA hazardous waste code	C. State hazardous waste code			
D040 F001				
D. Source code G01 Management method code for source code G25	E. Form code W110	F. Quantity generated in 2011 25,035.00 UOM POUNDS Density ☐ 1 lbs/gal ☐ 2 sg		G. Waste minization code Y

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1 ☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Quantity treated, disposed, or recycled on site in 2011
ON-SITE PROCESS 1		
ON-SITE PROCESS 2		

SEC. 3

A. Was any of this waste shipped off site in 2011 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2011
SITE 1	ARD981057870	H061	25035.00
SITE 2			
SITE 3			

Comments:

IMPLEMENTED BETTER HANDLING AND CLEANING PROCEDURES

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER

SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

US ENVIRONMENTAL PROTECTION AGENCY

2011 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining on page 19 of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
WASTE ACIDS

B. EPA hazardous waste code	C. State hazardous waste code			
D002				
D. Source code G02 Management method code for source code G25	E. Form code W105	F. Quantity generated in 2011 10,516.00 UOM POUNDS Density ☐ 1 lbs/gal ☐ 2 sg	G. Waste minization code Y	

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1 ☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Quantity treated, disposed, or recycled on site in 2011
ON-SITE PROCESS 1		
ON-SITE PROCESS 2		

SEC. 3

A. Was any of this waste shipped off site in 2011 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2011
SITE 1	ARD981057870	H141	10516.00
SITE 2			
SITE 3			

Comments:

IMPROVED HANDLING PROCEDURES, CONDUCTED TRAINING

LIMCO Airepair, Inc.

FILE COPY

RECEIVED
AUG 27 2012
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

August 23, 2012

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

FILE COPY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for Instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☑	☐	☐	2012

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments	
15251	KS0000033689 1	ARD981057870	1331	S02	✓
24432	KS0000033689 1	ARD981057870	918	S01	✓
15251	FLD982105884	ARD069748192	165	S02	✓

Total amount **this page** in **Pounds** 14,394

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent [signature] Date August 23, 2012

Typed Name of Authorized Agent Bill Williams

LIMCO Airepair, Inc.

FILE COPY

RECEIVED
NOV 26 2012
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

November 19, 2012

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

FILE COPY

OKR000000612

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☑	☐	2012

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

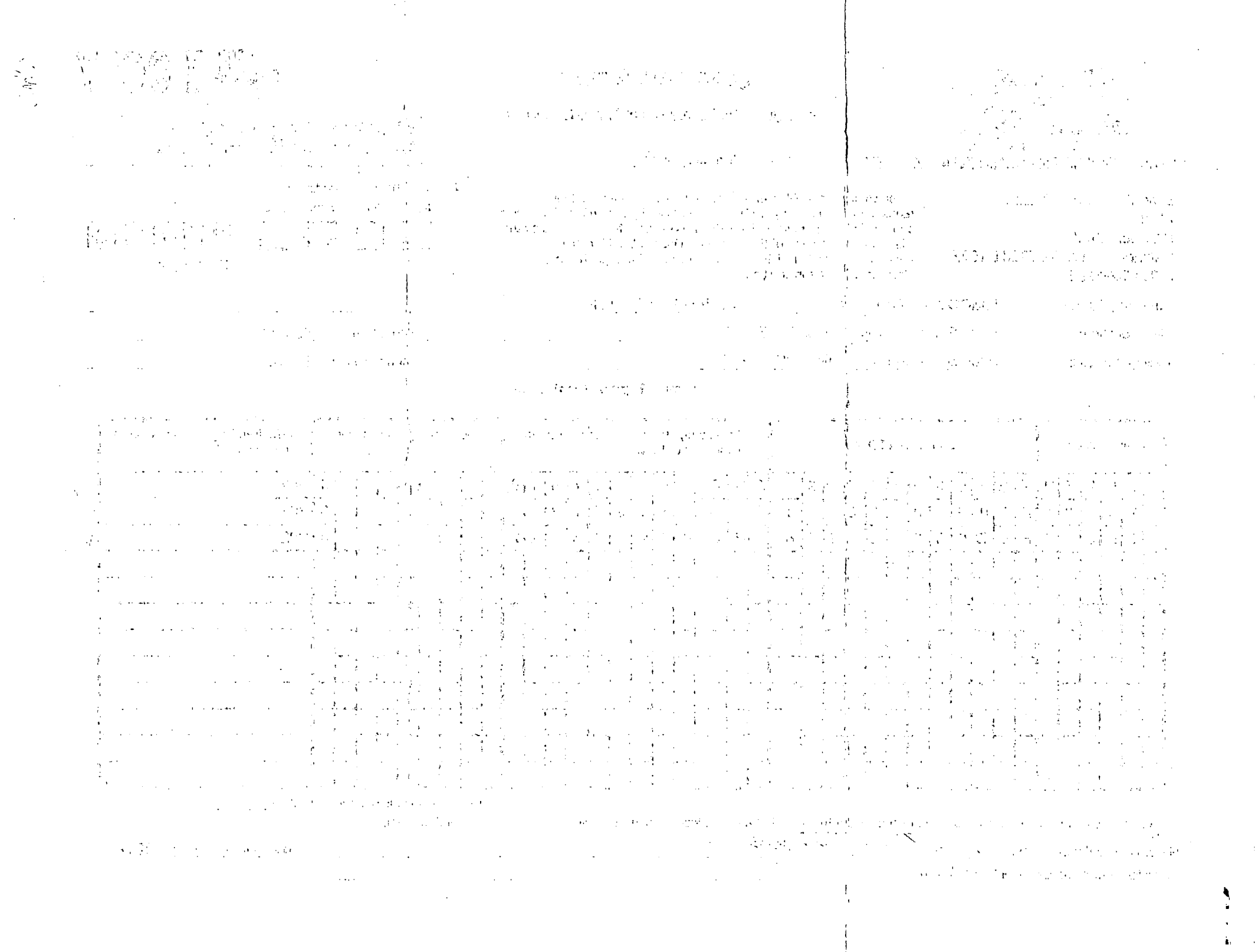
1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15251	KS0000033689 1	ARD981057870	0	S02
24432	KS0000033689 1	ARD981057870	0	S01
15251	FLD982105884	ARD069748192	0	S02

Total amount **this page** in **Pounds** 0

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent _____ Date November 19, 2012

Typed Name of Authorized Agent Bill Williams



RECEIVED
JAN 15 2013
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

EPA I.D. No. FILE COPY

OKR000000612

Disposal Plan No.: 728097

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☐	☑	2012

Page 1 of 1

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped In Pounds	5 TSDF Handling Codes (required) and Comments
15189	KS0000036891	ARD981058701	6426	S01
15189	OKD9815887911	ARD981058701	1836	S01
15251	KS0000036891	ARD981058701	5508	S02
15251	OKD9815887911	ARD981058701	7344	S02
24432	OKD9815887911	ARD069748192	547	S02

Total amount **this page** in **Pounds** 21,661

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date January 8, 2013

Typed Name of Authorized Agent Bill Williams

LIMCO Airepair, Inc.

FILE COPY

RECEIVED
JAN 15 2013
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

January 08, 2013

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

LIMCO Airepair, Inc.

FILE COPY

RECEIVED
MAY 08 2013
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

April 30, 2013

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

FILE COPY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☑	☐	☐	☐	2013

Page 1 of 1

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

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Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

RECEIVED
MAY 09 2013
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	TSDF Handling Codes (required) and Comments
15189	ARR000016733	ARD981057870	3672	S01 ✓
15251	ARR000016733	ARD981057870	5967	S01 ✓
15251	ARR000016733	ARD069748192	440	S01 ✓
24432	ARR000016733	OHD980613541	2295	S01 ✓
24432	ARR000016733	ARD981057870	459	S01 ✓

Total amount **this page** in **Pounds** 12, 833

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date April 30, 2013

Typed Name of Authorized Agent Bill Williams

LAC 5/7/13

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT

FACILITY NAME: 5304 S LAWTON AVE

COMPANY ID: 1687

FACILITY ID: 3620

Company Mailing Address	STREET: 5304 S LAWTON AVE		
	CITY: TULSA	STATE: OK	ZIP: 74107
Facility Physical Address	STREET: 5304 S LAWTON AVE		
	CITY: TULSA	STATE: OK	ZIP: 74107

Status:	Active
NAICS:	332912
SIC:	3728
TRI:	

Issued Permit:	Date Issued
99-026-O M-2	2004-05-24

Responsible Official

Name:	BILL WILLIAMS
Phone:	(918) 445-4300
Fax:	(918) 446-8704
Email:	billw@limcoairepair.com

Facility Contact

Name:	BILL WILLIAMS
Phone:	(918) 445-4300
Fax:	(918) 446-8704
Email:	billw@limcoairepair.com

Notes regarding this Facility:

Facility Location: Legal Description

County:	TULSA		
Sec Loc:		Section:	35
Town:	19N	Range:	12E

Geographic Coordinates

Latitude:	35.95011
Longitude:	-95.88902

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
1	16499	Wipedown

Notes	Unit Type	Status	Latitude	Longitude
	Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 16564 **Name: Wipedown Fugitives** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1	4

Process Data

Process ID: 59735 **SCC:** 40188898 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0030	0.0410	**12.81**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **4992**

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: Mass Balance

EmissionFactor: 0

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **9.30** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 9.50 **Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
2	16500	Vapor Degreaser

Notes	Unit Type	Status	Latitude	Longitude
	Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 16565 **Name: Vapor Degreaser Fugitives** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
7	3

Process Data

Process ID: 59736 **SCC:** 40188898 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	0.0020	0.03	**9.43**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **4992**

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: Mass Balance

EmissionFactor: 0

Reference:

Factor Includes Control Efficiency?

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Trace (<0.001 tons)

Total Actual Emissions: **0** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 3 **Tons/Year**

Pollutant:	*Trichloroethylene*	**CAS Number:**	79016				
Calculation Method		**EmissionFactor**				Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.8580** **Tons**
Mass Balance		0	*N/A - Formula, Software, or CEMS	**Numerator Units**			
Reference		Factor Includes Control Efficiency? ☐	*N/A - Formula, Software, or CEMS	**Denominator Units**			
Capture efficiency (%)	**Primary Control Device**	Vapor Recovery Sys (Incl. Condensers, Hooding, Other Enclosures)	**Primary Efficiency (%)**	99	**Excess Emissions**	0	**Tons**
100	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	3.20	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
3	16501	Paint Booth

Notes	Unit Type	Status	Latitude	Longitude
	Spray Booth or Coating Line	Operating	35.950050	-95.889020

Emission Release Point ID: 16566 **Name: Paint Booth Exhaust** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
8	6

Process Data

Process ID: 59737 **SCC:** 40200101 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Surface Coating Operations, Surface Coating Application - General, Paint: Solvent-base

Process Material: Paint

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0	0.0020	**0.62**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **4992**

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: Mass Balance

EmissionFactor: 0

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.4210** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 0.56 **Tons/Year**

Pollutant: *Methyl isobutyl ketone* **CAS Number:** 108101

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**	(<0.001 tons)	**0.0010** Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**		

Capture efficiency (%)							
0	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

Pollutant: *Toluene* **CAS Number:** 108883

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**	(<0.001 tons)	**0.0170** Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**		

Capture efficiency (%)							
0	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

Pollutant: *Xylenes (mixed isomers)* **CAS Number:** 1330207

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**	(<0.001 tons)	**0.0110** Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**		

Capture efficiency (%)							
0	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
4	17194	Dip Coating

Notes	Unit Type	Status	Latitude	Longitude
	Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 279 **Name: Degreasing Fugitives** **Type: Fugitive** **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
3	5

Process Data

Process ID: 59738 **SCC:** 40100399 **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Cold Solvent Cleaning/Stripping, Other Not Classified

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0010	0.02	**6.10**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: Mass Balance

EmissionFactor: 0

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: 0 **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 5.36 **Tons/Year**

Pollutant:	*Toluene*	**CAS Number:**	108883				
Calculation Method		**EmissionFactor**					
Mass Balance		0		*N/A - Formula, Software, or CEMS	**Numerator Units**	Trace ☐ (<0.001 tons)	**Total Actual Emissions** **4.44** **Tons**
Reference		Factor Includes Control Efficiency? ☐		*N/A - Formula, Software, or CEMS	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
0	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	5.10	**Tons/Year**

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
5	18608	Testing

Notes	Unit Type	Status	Latitude	Longitude
	Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 18426 — **Name: Testing Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
4	5

Process Data

Process ID: 59739 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0010	0.0080	**2.37**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: **4992**

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * Volatile Organics (non-HAP) **CAS Number:**

Calculation Method: Mass Balance

EmissionFactor: 0

Numerator Units: *N/A - Formula, Software, or CEMS

Denominator Units: *N/A - Formula, Software, or CEMS

Reference:

Factor Includes Control Efficiency?

Trace (<0.001 tons)

Total Actual Emissions: **0.82** **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 2.50 **Tons/Year**

Pollutant:	*Xylenes (mixed isomers)*	**CAS Number:**	1330207		
Calculation Method	**EmissionFactor**				
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**	Trace ☐ (<0.001 tons)	**Total Actual Emissions** **0.09** **Tons**
Reference	Factor Includes Control Efficiency? ☐	*N/A - Formula, Software, or CEMS	**Denominator Units**		

Capture efficiency (%)	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions**	0	**Tons**
0	**Secondary Control Device**	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed**	0	**Tons/Year**

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT **COMPANY ID: 1687**
FACILITY NAME: 5304 S LAWTON AVE **FACILITY ID: 3620**

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Volatile Organics (non-HAP)		10.5410	N
Methyl isobutyl ketone	108101	0.0010	Y
Toluene	108883	4.4570	Y
Trichloroethylene	79016	0.8580	Y
Xylenes (mixed isomers)	1330207	0.1010	Y

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS

2012 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT

"I certify:
(a) That I am the Responsible Official for LIMCO AIREPAIR INC AND AERODUCT as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ **Date:** _____ **Title:** _____

RECEIVED

AUG 19 2013

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

EPA I.D. No. OKR000000612

Disposal Plan No.: 728097

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☑	☐	☐	2013

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

LAC 8/21/13

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15189	ARR0000016733	ARD981057870	918	S01 ✓
15251	ARR0000016733	ARD981057870	6426	S01 ✓
24432	ARR0000016733	ARD069748192	918	S01 ✓
24432	ARR0000016733	ARD981057870	4332	S01 ✓

Total amount **this page** in **Pounds** 12, 594

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent [signature] Date August 14, 2013

Typed Name of Authorized Agent Bill Williams

LIMCO Airepair, Inc.

RECEIVED
AUG 19 2013
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

August 13, 2013

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

APPLICATION/PERMIT ISSUANCE EVENT TRACKING
AIR QUALITY DIVISION

FAC ID #3620

RECEIVED
FEB 20 2004
By

Company Name: LIMCO AIREPAIR, INC.

Facility Name: LIMCO AIREPAIR 5304 S Lawton Ave.

City: TULSA (Nearest) County: TULSA AIRS ID: 143-00155

Permit Number: 99-026-O(M-2) Engineer: J. TYLER JED

Steps			Date	Initials
Fee Received Amount: $500	Receipt No.	ROAT	2/20/04	LH
Facility Type / RDI: II / 20 Title V ___ Synthetic-minor X Non Title V ___				
Application Type: Applicability Determination ___ Construction ___ Operation ___				
Title V: ___ GOP ___ Modification X Relocation ___ PBR			2-24-04	MC
Confidential Information Included: No Yes (Requires a separate file)			2/23/04	MW
Tier Classification: I: X II: III: N/A			2-24-04	MC
Tracking Log Entry and Distributed to Engineer			2-24-04	MC
Administrative Review (Start date is the date application received by AQD)				
• Fee Assessment → Total Due $500 Total Received $500			2-20-04	JLT
• Landowner Affidavit Received			3-15-04	JLT
• Filing Notice Received (Only Tier II & III)				
• EPA Transmittal Form Received (Only Title V)				
• Notice of Deficiency	By Letter	By Phone		
• Response				
• Completeness Letter Sent			3-15-04	JLT
Technical Review (Start date, same date as completeness letter sent)			3-15-04	JLT
• Notice of Deficiency 1 / PFA 1 / PLA (circle one)	By Letter	By Phone		
• Response 1 (circle (yes/no), date and initial)	Back to Tech Review	Yes or No		
• Notice of Deficiency 2 / PFA 2 / PLA (circle one)	By Letter	By Phone		
• Response 2 (circle (yes/no), date and initial)	Back to Tech Review	Yes or No		
Draft Permit Prepared by Engineer			5/17/04	JLT
Peer Reviewer - enter name here: HAL WRIGHT			5/18/04	HW
Enforcement Review / Coordination	Existing Source	New Source		
Technical Review – Supervisor -	Existing Source X	New Source	5-21-04	RK
Final Approval by Permit Chief Engineer (Tier I or AD)			5-24-04	DPL
Draft Permit Public Notice (Tier II & III) Approval by Chief Engineer			N/A	RK
• Distributed to: Affected State/Applicant: Date: Initial: EPA:				
• Draft Permit Publication Notice Published: Date: Received:				
• Public Starts Date: Ends: Date: EPA Starts: Date: Ends:				
• Public Meeting Held				
Proposed Permit Public Notice (Tier III) Approval by Chief Engineer				
• Distributed to: Affected State/Applicant: Date: Initial: EPA:				
• Proposed Permit Publication Notice Published: Date: Received:				
• Public Starts Date: Ends: Date: EPA Starts: Date: Ends:				
• Response to Comments Mailed				
Final Approval by Director AQD				
Final Approval by Executive Director DEQ (Tier III)				
Final Processing				
• Distribution to: Applicant , ECLS Office , EPA , Internal			5-24-04	CW
• Date Permit Writer Entered Electronic Copy of Permit into Permit Archive			5-27-04	JLT
• File Created in File Room				

AIRS Updates:	Draft (date):		EPA Rec'd:		AIRS Issued:		
WEB Update:	Post Draft:		Proposed:		Remove Issued		Post PSD

Initial and Date each Step when it is complete or mark N/A. Keep this Tracking Form with Permit through all steps.

OKLAHOMA DEPARTEMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **May 24, 2004**

TO: DFL Dawson F. Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: RK Richard Kienlen, P.E., Engr. Mgr. II, New Source Permits Section

THROUGH: Hal Wright, Regional Office At Tulsa

FROM: Jennifer Tyler, Regional Office At Tulsa FACILITY # 3620

SUBJECT: Evaluation of Permit Application No. **99-026-O (M-2)**
Limco-Airepair, Inc. (LA)
5304 S. Lawton Ave.
Tulsa, Tulsa County, OK
Section 35, Township 19N, Range 12E
Directions: Taking Hwy 75 south you exit on I-44 East, take the first access road exit before merging onto I-44. Turn right on the access road and the first street you come to is South Lawton. Turn left onto Lawton, and the plant is at the end of the street on your right.

INTRODUCTION

Limco-Airepair, Inc. (LA) is requesting a modification of their current Operating Permit No. 99-026-O (M-1). The modification will include adding Xylene to Table No. 2 to correlate with Table No. 1, changing the wording of perchloroethylene to read trichloroethylene, and increasing the use of toluene, mineral spirits, IPA, and various paints.

PROCESS DESCRIPTION

In general, the plant has three product activities, i.e., the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.

Manufacturing Process

All ovens used for drying and soldering have a combined heat rate of 0.80 MMBTUH.

First, LA buys thin sheets of aluminum and stainless steel to use in the manufacture and repair of various products.

The steps in the manufacture of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. LA is required to test most of

the heat exchangers that are of a new design. The new units are performance tested for flow vs pressure drop of both the cooling medium (air) over the outside of the heat exchanger, and the medium to be cooled (engine lube oil, hydraulic fluid, etc.) which is on the inside of the exchanger. They are also tested for their heat transfer capabilities.

The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated.

The steps in the repair of the air ducts are: inspected for flaws, cleaned, heat dried, repairs made, cleaned, and coated.

WELDING/SOLDERING

Various types of welding are used by LA, i.e., MIG, TIG, etc.

The soldering is done by placing assembled, "tinned" parts in natural gas fired ovens. Tinning is a process where the part is coated with the required amount of solder/flux on each joint to be soldered. The part is then heated to a temperature just above the melting point of the solder to allow the solder to melt and flow into the joint to be soldered. The part is then cooled to room temperature in ambient air.

SIZING/SHAPING

This is done with conventional sheet metal shears, sheet metal brakes, stamping machines, etc.

COATING

All products are cleaned and heat dried before coating.

The parts may get some combination of four types of coatings, i.e. paint, alodine, anodize, or silicone aluminum dip. Anodizing is done by an outside contractor; all others are done by LA.

Less than 10% of all products are spray-painted. The painting is done in a totally enclosed 12' x 12' x 8' high paint booth using a high volume low pressure spraying rig. The paint over-spray is sucked through a 95% efficient dry type filter at 3,500 acfm and exhausts 8 feet above grade through a 12-inch diameter duct.

The alodine process is done by soaking the part in a bath of nitric/chromic acid, which results in the desired surface getting a coat of aluminum oxide. This process does not use heat or electric current.

Silicone/Aluminum Dip solution consists of 8.4 gallons of Toluene, 1.0 gallon of Dow #805 silicone resin, and 1.6 pounds of aluminum powder. 61.5 gallons of this solution is placed in a 400-gallon dipping tank that is located in a totally enclosed room (10 ft x 12 ft x 10 ft high) within the shop. After the part is dipped (the part is completely coated) it is hung over the tank to drip and dry. The result is the part gets a thin coat of aluminum filled silicone. The air in the dipping room

is exhausted to the outside by a 22,000 acfm fan through a dry type filter in a 14 inch diameter duct at 10 ft above grade.

Anodizing is a process where a surface on the part gets a coating of aluminum by an electrolysis process. The part is made an anode as part of an electric circuit in a bath of acid, and as a result aluminum is deposited on the part's surface.

CLEANING

Parts are cleaned by different chemicals at different stages in the manufacturing/repair processes. The parts can be cleaned by hand wiping with solvents, acid, or caustic bath followed by water rinse or trichloroethylene degreaser.

The parts are dried after the cleaning process by electric heated ovens or natural gas fired ovens.

The facility operates 16 hours per day, 5.5 days per week, and 22 days a month, or 4,224 hours per year.

EMISSIONS

The significant air emissions are from the hand wiping of parts with solvents and coating. The air emissions from parts drying (combustion of natural gas), welding, and metal sizing/shaping are negligible, and will not be included in the following emissions analysis.

Purchases of acids and caustics used in the clean lines have been tabulated in the application. The replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Limco estimates the use of trichloroethylene for the degreaser to be 520 gallons per year, which is shown in the following emission table. This includes material that was collected for reclamation. The emissions shown are the net amounts. The vapor degreaser holds 110 gallons of trichloroethylene and has a freeboard ratio of 1.3.

Materials used in cleaning and wipe down of the parts include 2,000 gallons per year (GPY) of MEK and 530 GPY of isopropyl alcohol. The use of mineral spirits in pressure testing is estimated to be 355 GPY. The facility uses 95 gallons of ten different primers, topcoats and solvents.

The following tables show the total facility VOC and HAPs emissions.

FACILITY TOTAL EMISSIONS [2]

USE	POLLUTANT	CAS NO.	HAP	CAT	De minimis		Permit limits	
					PPH	TPY	PPH	TPY
Dip Coat	Toluene	108883	Y	C	5.60	6.00	2.40	5.10
	Xylene	133027	Y	C	5.60	6.00	0.19	0.40
Degreaser	Trichloroethylene	79016	Y	A	0.57	0.60	1.50	3.20
Wipe	MEK	108101	N	C	5.60	6.00	3.20	6.80 [3]
Testing	Mineral Spirits	64742887	N	C	5.60	6.00	0.53	1.20
Wipe	IPA	67630	N	C	5.60	6.00	0.82	1.80
Paint [1]	Various	Various	NA	NA	(2)	(2)	0.22	0.50
TOTAL VOC								**19.00**
TOTAL HAPS								**8.70**

(1) If all the paint VOCs were Cat. A the de minimis would not be exceeded. (2) Does not include combustion emission pollutants, which are negligible. (3) EPA Screen3 modeling shows a maximum ground level concentration of 1,259 micrograms per cubic meter (ug/m^3) for an emission rate of 3.2 pounds per hour as compared to an allowable maximum acceptable ambient concentration (MAAC) of 59,000 ug/m^3.

The following table shows the VOC emission data comparison between the new permit and the existing permit in TPY.

Pollutant	Existing	New	Change
Paint	0.56	0.50	-0.06
Trichloroethylene	3.00	3.20	+0.20
Cleaning	7.50	6.80	-0.70
Testing	2.50	1.20	-1.30
Dip: Toluene	5.00	5.10	+0.10
Xylene	0.36	0.40	+0.04
Total	**18.92**	**17.20**	**-1.72**

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Subchapter 3 enumerates the primary and secondary ambient air quality standards and the significant deterioration increments. At this time, all of Oklahoma is in "attainment" of these standards.

OAC 252:100-4 (New Source Performance Standards) [Not Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2002, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G. These requirements are addressed in the "Federal Regulations" section.

OAC 252:100-5 (Registration, Emission Inventory and Annual Operating Fees) [Applicable]
Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants. An emission inventory was submitted and fees paid for previous years as required.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
Subchapter 7 sets forth the permit application fees and the basic substantive requirements of permits for minor facilities. Since criteria pollutant emissions are less than 100 TPY for each pollutant, and emissions of HAPs will not exceed 10 TPY for any one HAP or 25 TPY for any aggregate of HAPs, the facility is defined as a minor source. As such, BACT is not required.

OAC 252:100-9 (Excess Emissions Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as the owner or operator of the facility has knowledge of such emissions, but no later than 4:30 p.m. the next working day. Within ten (10) working days after the immediate notice is given, the owner or operator shall submit a written report describing the extent of the excess emissions and response actions taken by the facility.

OAC 252:100-13 (Prohibition of Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this subchapter.

OAC 252:100-19 (Particulate Matter (PM)) [Applicable]
Section 19-4 regulates emissions of PM from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4 -1 lists natural gas TPM emissions to be 7.6 lbs/million scf or about 0.0076 lbs/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences that consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Based on past experience with this facility, the potential for violating the standards is negligible.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originated in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or to interfere with the maintenance of air quality standards. Under normal operating conditions, this facility

has negligible potential to violate this requirement; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100-31 (Sulfur Compounds) [Applicable]
Fuel-burning equipment at this facility uses commercial natural gas. The AP-42 (2/98), Table 1.4-2 emission factor of 0.6 pounds of SO_2 per million cubic feet equates to approximately 0.0006 lbs/MMBTU. This is well below the new equipment standard of 0.2 lbs/MMBTU for gas fuel.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
This subchapter limits new gas-fired fuel-burning equipment with rated heat input greater than or equal to 50 MMBTUH to emissions of 0.2 lbs of NO_x per MMBTU, three-hour average. There are no equipment items that exceed the 50 MMBTUH threshold.

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
None of the following affected processes are located at this facility: gray iron cupola, blast furnace, basic oxygen furnace, petroleum catalytic cracking unit, or petroleum catalytic reforming unit.

OAC 252:100-37 (Volatile Organic Compounds) [Not Applicable]
-15 Storage of VOCs. This facility does not store any hydrocarbon liquids, and is not an affected source under this section.
-36 Fuel-Burning Equipment. Under this section Limco is required to adjust the burners for essentially complete fuel combustion. Limco-Airepair burns only commercial-grade natural gas in the combustion units, which promotes compliance. The facility anticipates remaining in compliance under normal operations.
-25 This section limits the VOC content of coating used in coating lines or operations for any facility with VOC emissions in excess of 100 lbs/day. Coating parts operations will consume less than 50 pounds of VOC per day, so the facility is exempt.

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas) [Applicable]
Part 7, Sections 46 concerns coating of metal parts and products. Per 39-46 (h), Limco is exempt as the VOC emissions from surface coating and cleaning do not exceed 10 TPY.

OAC 252:100-41 (Hazardous Air Pollutants and Toxic Air Contaminants) [Applicable]
Part 3 addresses hazardous air contaminants. NESHAP, as found in 40 CFR Part 61, are adopted by reference as they exist on July 31, 2002, with the exception of Subparts B, H, I, K, Q, R, T, W and Appendices D and E, all of which address radionuclides. In addition, General Provisions as found in 40 CFR Part 63, Subpart A, and the Maximum Achievable Control Technology (MACT) standards as found in 40 CFR Part 63, Subparts F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, CCCC, GGGG, HHHH, NNNN, SSSS, TTTT, UUUU, VVVV, and XXXX are hereby adopted by reference as they exist on July 31, 2002. These standards apply to both existing and new sources of HAPs. These requirements are covered in the "Federal Regulations" section.

Part 5 is a **state-only** requirement governing toxic air contaminants. New sources (constructed after March 9, 1987) emitting any category "A" pollutant above de minimis levels must perform a BACT analysis, and if necessary, install BACT. All sources are required to demonstrate that emissions of any toxic air contaminant that exceed the de minimis level do not cause or contribute to a violation of the maximum acceptable ambient concentration (MAAC). There are two toxics that exceed their de minimis, MEK and Trichloroethylene. Trichloroethylene is a HAP and Category A toxic generated by the vapor degreaser, which is subject to a Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart T. As such, Trichloroethylene is exempt from this part per §41-43(a)(3). Screen3 modeling for MEK has a ground-level concentration of 1,259 $\mu g/m^3$ as compared to a MAAC of 59,000 $\mu g/m^3$. This facility is in compliance.

OAC 252:100-43 (Testing, Monitoring, and Recordkeeping) [Applicable]
This subchapter provides general requirements for testing, monitoring and recordkeeping and applies to any testing, monitoring or recordkeeping activity conducted at any stationary source. To determine compliance with emissions limitations or standards, the Air Quality Director may require the owner or operator of any source in the state of Oklahoma to install, maintain and operate monitoring equipment or to conduct tests, including stack test, of the air contaminant source. All required testing must be conducted by methods approved by the Air Quality Director and under the direction of qualified personnel. A notice-of-intent to test and a testing protocol shall be submitted to Air Quality at least 30 days prior to any EPA Reference Method stack tests. Emissions and other data required to demonstrate compliance with any federal or state emission limit or standard, or any requirement set forth in a valid permit shall be recorded, maintained, and submitted as required by this subchapter, an applicable rule, or permit requirement. Data from any required testing or monitoring not conducted in accordance with the provisions of this subchapter shall be considered invalid. Nothing shall preclude the use, including the excusive use, or any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

FEDERAL REGULATIONS

PSD, 40 CFR Part 52 [Not Applicable]
PSD does not apply. Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]
There are no sources or facilities at this site affected by any NSPS subpart.

NESHAP, 40 CFR Part 61 [Not Applicable]
There are no emissions of any of the regulated pollutants: arsenic, asbestos, benzene, beryllium, coke oven emissions, mercury, radionuclides, or vinyl chloride.

NESHAP, 40 CFR Part 63 [Subpart T Applicable]
Subpart T (Halogenated Solvent Cleaners). This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. The facility is an area source subject to Subpart T, and has complied with the initial notification requirement. A yearly report is required to be sent to the local DEQ office and an additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. The applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. The applicant is in compliance.
Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo.

Stratospheric Ozone Protection, 40 CFR Part 82 [Not Applicable]
This facility does not produce, consume, recycle, import, or export any controlled substances or controlled products as defined in this part, nor does this facility perform service on motor (fleet) vehicles that involves ozone-depleting substances. Therefore, as currently operated, this facility is not be subject to these requirements. To the extent that the facility has air-conditioning units that apply, the permit requires compliance with Part 82.

COMPLIANCE

Tier Classification and Public Review

This application has been classified as **Tier I** based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

Inspection

No inspection was performed on this facility because the facility did not remove or construct any new equipment. The modification requested was an increase in usage and a change in wording only.

Fee Paid

Permit modification fee of $500 was paid on February 20, 2004.

SUMMARY

There are no active Air Quality compliance or enforcement issues that would affect the issuance of this permit. Issuance of the modified operating permit is recommended.

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

MAY 24 2004

Mr. Michael Lowther, Operations Manager
Limco-Airepair, Inc.
5304 S. Lawton Ave.
Tulsa, OK 74107

Re: Operating Permit No. **99-026-O (M-2)**
Limco-Airepair, Inc.

Dear Mr. Lowther:

Enclosed is the permit authorizing operation of the referenced facility. Please note that this permit is issued subject to standard and specific conditions, which are attached. These conditions must be carefully followed since they define the limits of the permit and will be confirmed by periodic inspections.

Also note that you are required to annually submit an emissions inventory for this facility. An emissions inventory must be completed on approved AQD forms and submitted (hardcopy or electronically) by March 1st of every year. Any questions concerning the form or submittal process should be referred to the Emissions Inventory staff at 405-702-4100.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 293-1600. Air Quality personnel are located in the DEQ Regional Office at Tulsa, 3105 East Skelly Drive, Suite 200, Tulsa, Oklahoma, 74105.

Sincerely,

Jennifer L. Tyler

Jennifer Tyler
AIR QUALITY DIVISION

enclosure

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON STREET, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Issuance Date: MAY 2 4 2004 Permit Number: 99-026-O (M-2)

Limco-Airepair, Inc.,

having complied with the requirements of the law, is hereby granted permission to operate the facility to manufacture and repair aircraft parts at 5304 S. Lawton Avenue, Tulsa County, Oklahoma,

subject to the following conditions, attached:

[X] Standard Conditions dated October 31, 2003

[X] Specific Conditions

Chief Engineer, Air Quality Division

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

Limco-Airepair **Permit No. 99-026-O (M-2)**
Aircraft Subassembly Manufacturing and Repair

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on February 20, 2004. The Evaluation Memorandum dated May 24, 2004, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein.

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit Limits	
		PPH	TPY
Dip Coat	Toluene	2.40	5.1
	Xylene	0.19	0.40
	805 Resin	0.20	0.43
Degreaser	Trichloroethylene	1.50	3.20
Wipe	MEK	3.20	6.80
Testing	Mineral Spirits	0.53	1.20
Wipe	IPA	0.82	1.80
Paint	Various	0.22	0.50

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD (1)	GPY
Toluene	5.4	1,400
Xylene	0.43	110
805 Resin	0.60	157
Trichloroethylene	2.00	520
MEK	7.70	2,000
Mineral Spirits	1.37	355
IPA	2.04	530
Paints, various	0.39	100

(1) These gallons/day are work-week averages.

2. Alternate products and production quantities can be varied under the following conditions.

   a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
   b. A change in either production or products is permitted provided there would be no increase in the quantity of the resulting emissions. Additionally, the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC 252:100-41.
   c. The facility shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.
   d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

   a. The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

   b. The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

   c. Since Limco has chosen Option 1 for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio not less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this subpart would be a better choice, Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

   d. Limco will properly train each person who will operate the degreaser before they are allowed to use the machine. The written syllabus used for training will be readily available to each trained operator.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

    a. Records sufficient to demonstrate that the weekly averages of the product usages do not exceed those shown in Specific Condition #1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
    b. Degreaser records required by Specific Condition #3.
    c. Material usages (monthly and 12-month rolling totals).

6. This permit supercedes all previous permits for this facility, which are now null and void.

MINOR SOURCE PERMIT TO OPERATE / CONSTRUCT
AIR POLLUTION CONTROL FACILITY
STANDARD CONDITIONS
(October 31, 2003)

A. The issuing Authority for the permit is the Air Quality Division (AQD) of the Oklahoma Department of Environmental Quality (DEQ) in accordance with and under the authority of the Oklahoma Clean Air Act. The permit does not relieve the holder of the obligation to comply with other applicable federal, state, or local statutes, regulations, rules, or ordinances. This specifically includes compliance with the rules of the other Divisions of DEQ: Land Protection Division and Water Quality Division.

B. A duly issued construction permit or authorization to construct or modify will terminate and become null and void (unless extended as provided in OAC 252:100-7-15(g)) if the construction is not commenced within 18 months after the date the permit or authorization was issued, or if work is suspended for more than 18 months after it is commenced. [OAC 252:100-7-15(f)]

C. The recipient of a construction permit shall apply for a permit to operate (or modified operating permit) within 60 days following the first day of operation. [OAC 252:100-7-18(a)]

D. Unless specified otherwise, the term of an operating permit shall be unlimited.

E. Notification to the Air Quality Division of DEQ of the sale or transfer of ownership of this facility is required and shall be made in writing by the transferor within 10 days after such date. A new permit is not required. [OAC 252:100-7-2(f)]

F. The following limitations apply to the facility unless covered in the Specific Conditions:

1. No person shall cause or permit the discharge of emissions such that National Ambient Air Quality Standards (NAAQS) are exceeded on land outside the permitted facility. [OAC 252:100-3]
2. All facilities that emit air contaminants are required to file an emission inventory and pay annual operating fees based on the inventory. Instructions and forms are available on the Air Quality section of the DEQ web page. *www.deq.state.ok.us* [OAC 252:100-5]
3. All excess emissions shall be reported to the Director of the Air Quality Division as soon as practical during normal office hours and no later than the next working day following the malfunction or release. Within ten (10) business days further notice shall be tendered in writing containing specific details of the incident. [OAC 252:100-9]
4. Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in the Open Burning Subchapter. [OAC 252:100-13]
5. No particulate emissions from new fuel-burning equipment with a rated heat input of 10 MMBTUH or less shall exceed 0.6 lbs/MMBTU. [OAC 252:100-19]

6. No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. [OAC 252:100-25]
7. No visible fugitive dust emissions shall be discharged beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. [OAC 252:100-29]
8. No sulfur oxide emissions from new gas fuel-burning equipment shall exceed 0.2 lbs/MMBTU. No existing source shall exceed the listed ambient air standards for sulfur dioxide. [OAC 252:100-31]
9. Volatile Organic Compound (VOC) storage tanks built after December 28, 1974, and with a capacity of 400 gallons or more storing a liquid with a vapor pressure of 1.5 psia or greater under actual conditions shall be equipped with a permanent submerged fill pipe or with an organic material vapor-recovery system. [OAC 252:100-37-15(b)]
10. All fuel-burning equipment shall at all times be properly operated and maintained in a manner that will minimize emissions of VOCs. [OAC 252:100-37-36]
11. Except as otherwise provided, no person shall cause or permit the emissions of any toxic air contaminant in such concentration as to cause or to contribute to a violation of the MAAC. [OAC 252:100-41]

G. Any owner or operator subject to provisions of NSPS shall provide written notification as follows: [40 CFR 60.7 (a)]

1. A notification of the date of when construction of an affected facility will be commenced postmarked no later than 30 days prior to such date.
2. A notification of the anticipated date of initial start-up of an affected facility postmarked no more than 60 days nor less than 30 days prior to such a date.
3. A notification of the actual date of initial start-up of an affected facility postmarked within 15 days after such date.
4. If a continuous emission monitoring system is included in the construction, a notification of the date upon which the test demonstrating the system performance will commence, along with a pretest plan, postmarked no less than 30 days prior to such a date.

H. Any owner or operator subject to provisions of NSPS shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility or any malfunction of the air pollution control equipment. [40 CFR 60.7 (b)]

I. Any owner or operator subject to the provisions of NSPS shall maintain a file of all measurements and other information required by this subpart recorded in a permanent file suitable for inspection. This file shall be retained for at least five years following the date of such measurements, maintenance, and records. [40 CFR 60.7 (d)]

J. Any owner or operator subject to the provisions of NSPS shall conduct performance test(s) and furnish to AQD a written report of the results of such test(s). Test(s) shall be conducted within 60 days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial start-up. [40 CFR 60.8]

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

FAC ID #3620

Michael Lowther, Operations Manager
Limco Airepair, Inc.
5304 S. Lawton Ave
Tulsa, OK 74107

Permit Number: 99-026-O (M-2)
Permit Writer: Jennifer Tyler
Current Date: March 15, 2004

SUBJECT: Facility: Limco Airepair, Inc.
Location: Section 35, T19N, R12E
Date Received: February 20, 2004

Dear Mr. Lowther,

Air Quality has received your permit application for modification. It has been given a permit number and assigned to the permit writer referenced above. The information supplied thus far appears to be **administratively complete.** The fee assessed for this application is $500, and $500 has been received. Please note that additional information may be required in the future.

New DEQ Uniform Permitting Tier rules became effective July 1, 1996, and include certain requirements. This application has been determined to be a **Tier I.**

Thank you for your cooperation. If we may be of further service, please contact our office at (918) 293-1600. The DEQ Regional Office At Tulsa's location and mailing address is 3105 East Skelly Drive, Suite 200, Tulsa, OK 74105.

Sincerely,

Jennifer L. Tyler

Jennifer Tyler
AIR QUALITY DIVISION

APPLICATION/PERMIT ISSUANCE EVENT TRACKING
AIR QUALITY DIVISION

PHILLIP FIELDS 10-23-01

Company Name: **LIMCO AIREPAIR, INC**

Facility Name: SAME

FAC ID # 3620

City: TULSA (Nearest) County: TULSA

Permit Number: **99-026-O(M-1)** Engineer: **JACK FLY**

Steps	Date	Initials
Fee Received Amount: $1500 Receipt No. 5442	6/5/01	JF
Facility Type / RDI: ___ / ___ Title V ___ Synthetic-minor ___ Non Title V ___ **Application Type:** ___ Applicability Determination ___ Construction ___ Operation ___ Title V ___ GOP ___ Modification ___ Relocation ___ Temporary ___ PBR	6/5/01	JF
Confidential Information Included: ___ No ___ Yes (Requires a separate file)	6/5/01	JF
Tier Classification: ___ I ___ II ___ III ___ N/A		
Tracking Log Entry and Distributed to Engineer	6/6/01	JF
Administrative Review (Start date is the date application received by AQD)		
• Fee Assessment: Total Due ___ Total Received ___	6/5/01	JF
• Landowner Affidavit Received	6/5/01	JF
• Filing Notice Received (Only Tier II & III)		
• EPA Transmittal Form Received (Only Title V)		
• Notice of Deficiency ___ By Letter ___ By Phone		
• Response		
• Completeness Letter	6/6/01	JF
Technical Review (Start date)	6-7-01	JF
• Notice of Deficiency ___ By Letter ___ By Phone		
• Pending Facility Action (PFA) ___ By Letter ___ By Phone		
• Response 1 Back to Tech Review Yes or No		
• Notice of Deficiency 2 / PFA 2 ___ By Letter ___ By Phone		
• Response 2		
Draft Permit Prepared by Engineer	10-19-01	JF
Enforcement Review / Coordination ___ Legal ___ Waste Management		
Technical Review – Supervisor - ___ Existing Source ___ New Source		
Draft Permit Prepared / Letter Typing		
Final Approval by Permit Chief Engineer (Tier I or AD)	10/31/01	SPL
Draft Permit Public Notice (Only Tier II & III) Approval by Director AQD		
• Distribution to: ___ Affected State, ___ EPA, ___ Applicant		
• Draft Permit Notice Received		
• Public Comment Period Starts		
• Public Meeting Held		
Proposed Permit Public Notice (Only Tier III) Approval by Director AQD		
• Distribution to: ___ Affected State, ___ EPA, ___ Applicant		
• Proposed Permit Notice Received		
• Public Comment Period Starts		
• Response to Comments Mailed		
Final Approval by Permit Chief Engineer (AD's, Tier I, Tier II		
Final Approval by Director AQD		
Final Approval by Executive Director DEQ (Only Tier III)		
Final Processing		
• Distribution to: ___ Applicant, ___ TCLS Office, ___ EPA, ___ Internal	10-31-01	CLJ
• Entered in Permit Archive		

Initial and Date each Step when it is complete or mark N/A. **Keep this Tracking Form with Permit through all Steps.**

DEQ Form # 100-805

Revised May 9, 2000

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FACID # 3620

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **October 31, 2001**

TO: DFL Dawson Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: PF Phillip Fielder, P.E., New Source Permits Unit

THROUGH: Peer Review

FROM: Jack Fly, DEQ Regional Office at Tulsa

SUBJECT: Evaluation of Permit Application No. 99-026-O (M-1)
Limco-Airepair, Inc (LA)
Air Permit Modification
Aircraft Component Manufacturing/Repair Facility (SIC 3728)
5304 Lawton Ave
Tulsa County, Tulsa, Oklahoma 74121

INTRODUCTION

In the past, LA had two similar facilities located in Tulsa. On March 30, 2001, LA closed the facility located at 4250 South 76 East Avenue, Tulsa. The Lawton Ave plant is the only LA facility in Tulsa, and will take the workload of both facilities.

The applicant has requested a modification to the existing air permit No. 99-026-O to add another coating process plus increase the use of paints, degreaser solvent, parts cleaning solvents, and pressure testing fluid. The facility manufactures and repairs non-structural parts for the aerospace industry. This facility commenced operations in 1995. LA will remain a synthetic minor facility after the new operations commence.

Since the modification to the facility requested by LA increases the actual emissions by more than 5 tons per year (TPY) and is adding a new piece of equipment, a construction permit and modified operating permit are required per OAC 252:100-7. The fees associated with the permits are $1,500.

When issued Permit 99-026-O (M-1) will cover the entire facility, and all other LA air permits are void.

PROCESS DESCRIPTION

In general, the plant has three product activities i.e., the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.

Manufacturing Process

All the ovens used for drying and soldering have a combined heat rate of 0.80 MMBTUH

First, LA buys thin sheets of aluminum and stainless steel to use in the manufacture and repair of all three products.

The steps in the manufacture of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. LA is required to test most of the heat exchangers that are of a new design. The new units are performance tested for flow vs pressure drop of both the cooling medium (air) over the outside of the heat exchanger, and the medium to be cooled (engine lube oil, hydraulic fluid, etc) which is on the inside of the exchanger. They are also tested for its heat transfer capabilities.

The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated.

The steps in the repair of the air ducts are: inspection for flaws, cleaning, heat dried, repairs made, cleaned, and coated.

WELDING/SOLDERING

Various types of welding are used by LA i.e., MIG, TIG, etc.

The soldering is done by placing assembled, "tinned" parts in natural gas fired ovens. Tinning is a process where the part is coated with the required amount of solder/flux on each joint to be soldered. The part is then heated to a temperature just above the melting point of the solder to allow the solder to melt and flow into the joint to be soldered. The part is then cooled to room temperature in ambient air.

SIZING/SHAPING

This is done with conventional sheet metal shears, sheet metal brakes, stamping machines, etc.

COATING

All products are cleaned and heat dried before coating.

The parts may get some combination of four types of coatings i.e. paint, alodine, anodize, or silicone aluminum dip. Anodizing is done by an outside contractor; all others are done by LA.

Less than 10% of all products are spray-painted. The painting is done in a totally enclosed 12' x 12' x 8' high paint booth using a high volume low pressure spraying rig. The paint over spray is sucked through a 95% efficient dry type filter at 3,500 acfm and exhausts 8 feet above grade through a 12-inch diameter duct.

The alodine process is done by soaking the part in a bath of nitric/chromic acid, which results in the desired surface getting a coat of aluminum oxide. This process does not use heat or electric current.

The new coating process is called Silicone/Aluminum Dip. The dip solution consists of 8.4 gallons of Toluene, 1.0 gallons of Dow #805 silicone resin, and 1.6 pounds of aluminum powder. 61.5 gallons of this solution is placed in a 400-gallon dipping tank that is located in a totally enclosed room (10 ft x 12 ft x 10 high) within the shop. This basically means that the part to be coated is dipped in the solution as opposed to spraying/brushing/etc. After the part is dipped (the part is completely coated) it is hung over the tank to drip and dry. The result is the part gets a thin coat of aluminum filled silicone. The air in the dipping room is exhausted to the outside by a 22,000 acfm fan through a dry type filter in a 14 inch diameter duct to 10 ft above grade. This air that is exhausted is replaced by room air.

Anodizing is a process where a surface on the part gets a coating of aluminum by an electrolysis process. The part is made an anode as part of an electric circuit in a bath of acid, and as a result aluminum is deposited on the part's surface.

CLEANING

Parts are cleaned by different chemicals at different stages in the manufacturing/repair processes. The parts can be cleaned by hand wiping with solvents, acid, or caustic bath followed by water rinse or trichloroethylene degreaser.

The parts are dried after the cleaning process by electric heated ovens or natural gas fired ovens.

The facility operates 16 hours per day, 6 days per week, and 52 weeks per year, or 4,992 hours per year.

EMISSIONS

The significant air emissions are from the hand wiping of parts with solvents and coating. The air emissions from parts drying (combustion of natural gas), welding, and metal sizing/shaping are insignificant, and will not be included in the following emissions analysis.

Purchases of acids and caustics used in the clean lines have been tabulated in the application. The replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Limco estimates the use of trichloroethylene (Perc) for the degreaser to be 520 gallons per year which is shown in the following emission table. This includes material that was collected for reclamations. The emissions shown are the net amounts. The vapor degreaser holds 110 gallons of Perc and has a freeboard ratio of 1.3.

Materials used in cleaning and wipe down of the parts include 2,000 gallons per year (GPY) of MEK and 520 GPY of isopropyl alcohol. The use of mineral spirits in pressure testing is estimated to be 300 GPY. The facility plans to use 95 gallons of ten different primers, topcoats and solvents. A "supercoat" was created by assuming the worst polluting characteristic of each coating. Using this supercoat to represent all coating performed at the facility yields 0.31 TPY of VOC, with a maximum toxic solvent emission of 0.08 TPY of MEK. Assuming transfer and filter efficiencies of zero, a total of 0.36 TPY of particulates are emitted, with a maximum toxic particulate emission of 0.15 TPY of polymeric HDI.

The following tables show the total all facility VOC and HAPs emissions.

FACILITY TOTAL EMISSIONS[2]

USE	POLLUTANT	CAS NO.	HAP	CAT	De minimis		Permit limits	
					PPH	TPY	PPH	TPY
Dip Coat	Toluene	108883	Y	C	5.60	6.00	1.60	5.0
	Xylene	133027	Y	C	5.60	6.00	0.12	0.36
Degreaser	Perc	79016	Y	A	0.57	0.60	0.96	3.0[3]
Wipe	MEK	108101	N	C	5.60	6.00	2.35	7.5[4]
Testing	MinSprts	64742887	N	C	5.60	6.00	0.80	2.50
Wipe	IPA	67630	N	C	5.60	6.00	0.64	2.00
Paint [1]	Various	Various	NA	NA	(2)	(2)	0.24	0.56
TOTAL VOC								20.92
TOTAL HAPS								8.36

(1) If all the paint VOCs were Cat A the de minimis would not exceeded. (2) Does not include combustion emissions pollutants which were calculated to be less than 1.0 TPY. (3) The emissions of the perc are exempt from the Subchapter 41, Part 5 toxic rules since it is under the NESHAP Subpart T. (4) EPA Screen 3 modeling shows a maximum ground level concentration of 592.6 micrograms per cubic meter (ug/m3) for an emission rate of 2.35 pounds per hour as compared to an allowable maximum acceptable ambient concentration (MAAC) of 59,000ug/m3.

The following table shows the VOC emission data comparison between the new permit and the existing permit. This somewhat large increase in emissions is the result of this facility doing the work of two.

Pollutant	Existing	New	Increase
Paint	0.31	0.56	0.25
Perc	1.0	3.0	2.0
Cleaning	3.29	7.37	4.08
Testing	1.12	2.50	1.38
Dip: Toluene	0.0	5.0	5.0
Xylene	0.0	0.36	0.36
Total	5.72	18.79	13.07

FEDERAL REGULATIONS

PSD, 40 CFR 52 [Not Applicable]
Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]
There are no affected facilities or sources under any Subpart.

NESHAP, 40 CFR 61 [Not Applicable]
No benzene, arsenic, mercury, beryllium, vinyl chloride, coke oven emissions, asbestos or radionuclides are emitted.

NESHAP, 40 CFR Part 63 [T Applicable]
Subpart T (Halogenated Solvent Cleaners) This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. Applicant is subject to Subpart T, and has complied with the initial notification requirement. Now, a yearly report is required to be sent to the local DEQ office and an additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. Applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. Applicant is in compliance.
Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this Subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Primary Standards are in Appendix E and Secondary Standards are in Appendix F of the Air Pollution Control Rules. At this time, all of Oklahoma is in attainment of these standards.

OAC 252:100-4 (New Source Performance Standards) [Not Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2000, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G.

OAC 252:100-5 (Registration, Emission Inventory and Annual Fees) [Applicable]
This subchapter requires potential sources of air contaminants to register with the Air Quality Division. An emission inventory was submitted and fees paid for previous years as required.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
This facility qualifies as a minor source since total emissions of each criteria pollutant do not exceed 100 TPY and HAP emissions do not exceed the 10/25 TPY thresholds. As such, modeling, BACT, and public review are not necessary.

OAC 252:100-8 (Permits for Part 70 Sources) [Applicable]
This facility was originally permitted as a synthetic minor and this permit modification does not alter its permit status. Therefore this facility is not an affected source under this Subchapter.

OAC 252:100-9 (Excess Emission Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as practical during normal office hours and no later than **4:30 pm** the next working day following the malfunction or release. Further written notice containing specific details of the incident shall be submitted within ten (10) business days.

OAC 252:100-13 (Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this Subchapter.

OAC 252:100-19 (Particulate Matter) [Applicable]
Section 19-4 limits particulate emissions from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4-1 lists natural gas TPM emissions to be 7.6 lb/million scf or about 0.0076 lb/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Based on past experience with this facility, the potential for violating the standards are negligible.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. Under normal operating conditions, this facility will not cause a problem in this area; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100 –31 (Sulfur Compounds) [Applicable]
Because the driers burn commercial grade natural gas exclusively they are in compliance with the requirements of this Subchapter.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
These total maximum heat rate of combustion devices combined are rated at less than 1.0 MMBTUH and therefore is not an affected source under this Subchapter

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
This facility has none of the affected sources: foundry cupola, blast furnace, basic oxygen furnace, catalytic cracking unit, or catalytic reforming unit.

OAC 252:100-37 (Organic Materials) [Not Applicable]
-15 Storage of VOCs. This facility does not store any hydrocarbon liquids, and is not an affected source under this section.
-36 Fuel Burning Equipment. Under this Section Limco is required to adjust the fuel combustion for complete fuel combustion. LA burns only commercial grade natural gas in the combustion units which promotes compliance. The facility is anticipated to remain in compliance under normal operations.
-25 The coating of parts operations will consume less than 50 pounds of VOCs per day which is less than 100 pounds per day, and will therefore be exempt from this Subchapter.

OAC 252:100-39 (Volatile Organic Compounds in Nonattainment Areas) [Applicable]
Part 7, Section 39-46 concerns coating of metal parts and products. Limco is exempt as the VOC emissions from surface coating and cleaning will not exceed 10 TPY.

OAC 252:100-41 (Hazardous and Toxic Air Contaminants) [Not Applicable- **State Only**]
Part 3 addresses hazardous air contaminants. NESHAPs, as found in 40 CFR 61, are adopted by reference as they exist on July 1, 2000, with the exception of Subparts B, H, I, K, Q, R, T and W, and Appendices D and E, all of which address radionuclides. In addition, General Provisions as found in 40 CFR Part 63 Subpart A, and the Maximum Achievable Control Technology (MACT) standards as found in 40 CFR 63 Subparts F, G, H, I, L, M. N, O, Q, R, S, T, U, W, X, Y, CC, DD, EE, GG, HH, II, JJ, KK, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, RRR, TTT, VVV, and XXX are adopted by reference as they exist on July 1, 2000. As noted above, this facility is not an affected source.

Part 5 is a state-only requirement governing toxic air contaminants. New sources (constructed after March 9, 1987) emitting any category A pollutant in amounts greater than the Category A de minimis level must be reviewed for the application of BACT. All sources are required to demonstrate that emissions of any toxic air contaminant do not cause or contribute to a violation of the MAAC. There are two toxics that exceed their de minimis, MEK and Perc. Perc is a HAP and also a Cat A toxic which is exempt from this Subchapter (it is under NESHAP, Subchapter T). Screen modeling for MEK has a GLC of 592.6 ug/m3 as compared to a MAAC of 59,000 ug/m3. The facility is in compliance.

Limco is not an affected source with respect to the following rules.

OAC 252:100-15	Mobile Sources	Not in source category
OAC 252:100-17	Incinerators	Not type of emission unit
OAC 252:100-21	PM from Wood waste Burning	Not type of emission unit
OAC 252:100-23	Cotton Gins	Not type of emission unit
OAC 252:100-24	Grain Elevators	Not in source category
OAC 252:100-33	Nitrogen Oxides	Exempted by size
OAC 252:100-35	Carbon Monoxide	Not in source category
OAC 252:100-43	Part 3 - Specific Methods	Not in source category
OAC 252:100-47	Landfills	Not in source category

INSPECTION

DEQ permit writer Jack Fly accompanied by Bob Johnson, Limco Plant Mgr, inspected the facility on September 24, 2001. The following table shows the VOC use after 9 months of operation, the quantities that were disposed of, the permit limits and the projected 12 months quantities used. The projected quantities show that under normal operating conditions the facility will not exceed the permit limits or the Toxic category, except the Perc which is exempt from Subchapter 41, Part 5 (as stated in Part 3 exemptions) requirements since Perc is a HAP and is subject to NESHAP, Subpart T.

Pollutant	Used, 9mos, 55gal drums	Disposed, 55gal drums	Pound/ Gallon	Tons Used, 9mos[1]	Projected Tons, 12 Mos	Permit Limits, Tons	Cat/ HAP	PPH	De Minimis	
									PPH	TPY
Toluene	18	0	6.9	3.41	4.53	5.0	C/Y	1.60	5.60	6.0
Perc	13	8	12.1	1.66	2.20	3.0	A/Y	0.96	0.57	0.6
MEK	34	4	6.7	5.53	7.37	7.5	C/N	2.35	5.60	6.0
MinSprts	8	4	6.3	0.70	0.93	2.50	C/N	0.80	5.60	6.0
IPA	11	4	6.5	1.25	1.66	2.00	C/N	0.64	5.60	6.0
VOC/PAINT	NA	NA	NA	0.14	0.19	0.19	A/Y	0.08	0.57	0.6

(1) Tons used is a net quantity i.e., purchased minus disposal.

Specifically the degreaser is operated infrequently, and was not in use at the time of this inspection. Certain recordkeeping requirements had not been met and a discussion as to how to meet these requirements ensued. All records and appropriate labeling of the degreaser were in place as of December 3, 1999.

TIER CLASSIFICATION AND PUBLIC REVIEW

This application has been classified as Tier I based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

FEES PAID

Permit fees of $1500 was paid; $1000 for construction and $500 for operating.

SUMMARY

The applicant has demonstrated compliance with the applicable air quality rules and regulations. Ambient air quality standards are not threatened at this site. There are no active Compliance or Enforcement Air Quality issues concerning this facility. Issuance of the permit is recommended.

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

LIMCO Airepair **Permit No. 99-026-O(M-1)**
Aircraft Subassembly Manufacturing and Repair

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on June 5, 2001, with supplemental information received October 19, 2001. The Evaluation Memorandum dated October 31, 2001 explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein.

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit limits	
		PPH	TPY
Dip Coat	Toluene	1.60	5.0
	Xylene	0.12	0.36
Degreaser	Perc	0.96	3.0
Wipe	MEK	2.35	7.50
Testing	MinSprts	0.80	2.50
Wipe	IPA	0.64	2.00
Paint (1)	Various	0.24	0.56
TOTAL VOC			20.9
TOTAL HAPS			8.36

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD[(1)]	GPY
Toluene	5.1	1320
805 Resin	0.60	157
Perc	0.20	520
MEK	7.70	2000
MinSprts	1.15	300
IPA	2.00	520
Paints, various	0.31	80

(1) These GPD are work weekly averages.

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

October 31, 2001

Bob Johnson, Controller
LIMCO-Airepair, Inc.
5304 S. Lawton Avenue
Tulsa, OK 74107

Re: LIMCO-Airepair Operating Permit No. 99-026-O (M-1)

Dear Mr. Johnson:

Enclosed is the permit authorizing the operation of the modified referenced facility. Please note that this permit is issued subject to certain standard and specific conditions that are attached.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 461-7400. The DEQ Regional Office at Tulsa is located at 5051 South 129th East Avenue, Tulsa, OK and the mailing address is 5051-A South 129th East Avenue, Tulsa, OK, 74134.

Sincerely,

Jack Fly
AIR QUALITY DIVISION

xc: SherWill Environmental, Health & Safety
10388 E. 21 Street
Tulsa, OK 74129

Encl.

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Date OCT 31 2001 Permit No. 99-026-O(M-1)

Limco Airepair,

having complied with the requirements of the law, is hereby granted permission to operate a facility to manufacture and repair aircraft parts at 5304 S. Lawton Avenue, Tulsa, Tulsa County

subject to the following conditions, attached:

[X] Standard Conditions

[X] Specific Conditions

Chief Engineer, Air Quality Division

DEQ Form 885
Revised 7/93

2. Alternate products and production quantities can be varied under the following conditions.
   a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
   b. A change in either production or products is permitted provided there would be no increase in the quantity or a decrease in the quality of the resulting emissions. Additionally the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC252:100-41.
   c. LA shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.
   d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994 and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

   a) The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

   b) The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

   c) Since Limco has chosen Option one for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio not less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this Subpart would be a better choice Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

   d) Limco will properly train each person that will operate the degreaser before they allowed using the machine. The written syllabus used to in training will be readily available to each trained operator.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

a) Records sufficient to demonstrate the weekly averages of the product usages do not exceed those shown in SC#1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
b) Degreaser records required by Specific Condition #3.
c) Material usages (monthly and 12-month rolling totals).

6. This permit supercedes all previous permits, which are now null and void.

336-0812 STEEL

FAC ID #3620

99-026-0(M-2)

LIMCO

FAX

TOTAL NO PAGES 3

DATE: 10/17/01

TO: Bob Johnson Fax: 918-446-8704

FROM: Jack Fly JF Fax: 918-461-7421

SUBJECT: Sample of Degreaser Annual Reporting and Exceedance Forms

CONTENTS:
Please find attached sample forms that can be used for these reporting requirements.

Also I have included the verbiage that will appear in the forthcoming permit that will appear in the Federal Regulations Section, 40CFR63 Subpart T

NESHAP, 40 CFR Part 63 ***[T Applicable]***

Subpart T (Halogenated Solvent Cleaners) This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. Applicant is subject to Subpart T, and has complied with the initial notification requirement. Now a yearly report is required sent to the local DEQ office and one other additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. Applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. Applicant is in compliance.

Formerly all reports were sent to EPA Region VI, but now all Part 63 reports should be sent to the DEQ office in Tulsa.

HALOGENATED SOLVENT CLEANER NESHAP

Annual Report

PART TWO - Information Required per Cleaning Machine
(Make copies for additional machines as necessary)

Cleaner Identification Number:_____

Check compliance option chosen and fill out appropriate report requirements.

☐ Control Options

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the required operator test.

_____ _____
Signature Date

Previous Year's Solvent Consumption _____ Mg/yr.

☐ Alternative Standard

Cleaning machine size:

Solvent-air interface area _____ m^2
or
Solvent cleaning capacity _____ m^3

Average monthly solvent consumption _____ kg

Three month rolling average emission estimates: (calculations attached)

1. _____ kg From _____ To _____
Date Date

2. _____ kg From _____ To _____
Date Date

3. _____ kg From _____ To _____
Date Date

HALOGENATED SOLVENT CLEANER NESHAP:

Exceedance Report

PART ONE - General Information

Person Preparing Report_____ Date_____
Last Name, First Name, Middle Initial

Company Name_____

Mailing Address_____
Number, Street, City/Town, State, Zip Code

Intended Equipment
Location Address_____
Number, Street, City/Town, State, Zip Code

Cleaning Machine Summary

Identification Number	Description

FAC ID# 3620
99-026-O(M-2)
LIMCO

LIMCO Airepair, Inc. & Aeroduct

FAX MESSAGE

DATE:	**October 17, 2001**	
TO:	**Jack Fly, Sr. Env. Eng.** **Oklahoma DEQ**	**Fax 461-7404** **Tel 461-7421**
FROM:	**Bob Johnson**	
SUBJECT:	**Dip Tank Information for Air Permit**	

Jack,

Recapped below is the information you requested

Dip Tank content	**75% toluene** **12.5% alum paste** **12.5% 805 Resin**
Vendor Info.	**805 Resin is produced by Dow Corning. Our local vendor Is ChemCentral of Tulsa (tel. 425-1306)**
Other Info.	**MSDS information sheets for 805 Resin is attached.**

If you have questions please call me at 445-4331

Thanks

Bob Johnson

attachments

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

99-026-O(M-1)
FACID #3620 ADRIAN SIMMONS 7-26-01

1	COMPANY INFORMATION	Name	Limco Airepair, Inc.			
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa	State	OK	Zip	74107	

2	APPLICATION TYPE (check one)							
	Applicability Determination		Construction		Operation	X	Modification		Relocation
Est. Date of Construction/Modification Start	January 2001	Completion:	April 2001					
Operational Start-up Date	April 2001							

3	CONFIDENTIAL INFORMATION INCLUDED		YES	X	NO		

4	TIER CLASSIFICATION	X	Tier I		Tier II		Tier III		N/A. AD only
FACILITY TYPE	X	Minor					Major		

5	FEES SUBMITTED	$ 1,500.00	CHECK #	003915	DATE 6-5-01

6	TECHNICAL CONTACT	Name	Michelle Barnes		
Phone	(918) 261-5638		Fax	(918) 371-7309	
Company Name	SherWill Environmental Health and Safety Consultants				
Street Address	10388 E. 21st Street				
City	Tulsa	State	OK	Zip	74129

7	FACILITY INFORMATION	Name	Limco Airepair, Inc.		
Description	Aerospace Component Manufacture and Repair				
SIC Code(s)	3728				
Contact Person	Bob Johnson	Title	Vice President	Phone	(918) 445-4300
Legal Description	Section		Township		Range
Physical Address or Driving Directions	Heading East on I-44, Exit at Elwood Street, Turn Right onto Frontage Rd., Turn Left onto S. Lawton, Limco is located at the bottom of the hill on the right.				
City or Nearest Town	Tulsa	Zip	74107	County	Tulsa

8	Describe Any Residence, Park, School, etc. within ¼ mile	None

9 LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
99-026-O

10	APPLICATION CERTIFICATION		
This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.			
Responsible Official (signature)			
Responsible Official (typed)	Bob Johnson	Date	6/5/01
Responsible Official Title	Vice President	Phone	(918) 445-4300

CHECK NO.	CHECK DATE	VENDOR NO.
3915	06/04/01	ODEQ

LIMCO Airepair, Inc.
6304 S. Lawton Ave.
Tulsa, Oklahoma 74107
(918) 446-4300 • Fax (918) 446-2988

CHECK NO. 003915

BankFirst
Tulsa, Oklahoma

CHECK AMOUNT
$****1,500.00

ONE THOUSAND FIVE HUNDRED AND 00/100 DOLLARS

PAY
TO THE
ORDER OF

DEPT. OF ENVIROMENTAL QUALITY
FINANCIAL& HUMAN RESOURCES MGT
P.O. BOX 2036
OKLAHOMA CITY OK 73101
USA

AUTHORIZED SIGNATURE

Security features are included. Details on back.

"003915" :103003632: "055107701 4"

REC 5442
6-5-01

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

96-026-O(M-1)
FAC ID# 3620

1	COMPANY INFORMATION	Name	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.								
City	Tulsa			State	Ok	Zip	74107		
2	APPLICATION TYPE (check one)								
	Applicability Determination		Construction		Operation	☑	Modification		Relocation
Est. Date of Construction/Modification Start:	NA			Completion:	NA				
Operational Start-up Date	NA								
3	CONFIDENTIAL INFORMATION INCLUDED				YES	☑	NO		
4	TIER CLASSIFICATION	☑	Tier I		Tier II		Tier III		N/A AD only
FACILITY TYPE	☑	Minor			Major				
5	FEES SUBMITTED	$1200.00		CHECK #			DATE		
6	TECHNICAL CONTACT	Name	Michael Lowther						
Phone	(918)445-4300			Fax	(918)445-2210				
Company Name	Limco Airepair, Inc.								
Street Address	5304 S. Lawton Ave.								
City	Tulsa			State	OK	Zip	74107		

7	FACILITY INFORMATION	Name	Limco Airepair, Inc.				
Description	Aerospace Heat transfer and cooling equipment manufacturing and repair						
SIC Code(s)	3728						
Contact Person	Michael Lowther		Title	Operations Manager		Phone	(918)445-4300
Legal Description	Section	35	Township	19N		Range	12E
Physical Address or Driving Directions	Taking Highway 75 south you exit on I-44 east, take the first access roda exit before merging onto I-44. Turn right on the access roaqd and the first street you come to is S.Lawton. Turn left(heading south) onto Lawton, and the plants is at the end of the street on your right.						
City or Nearest Town	Tulsa, OK.		Zip	74107		County	Tulsa

8	Describe Any Residence, Park, School, etc. within ¼ mile	None

9	LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
99-026-O(M-1)	

10	APPLICATION CERTIFICATION		
This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.			
Responsible Official (signature)	Michael Lowther		
Responsible Official (typed)	Michael Lowther	Date	2/17/04
Responsible Official Title	Operations Manager	Phone	(918)445-4300

LIMCO Airepair, Inc. & Aeroduct

The Trichloroethylene usage in 2002 was exceeded due to an equipment malfunction in the degreasing machine that cause the heating elements to burn-out twice in the year. The facility had to replenish the Degreaser twice in the year to continue production. This consumed approximately an extra 330 gallons of Trichloroethylene, above normal usage. The waste from the degreasing change-out was properly disposed of at an approved facility. Procedures have been put in place if future problems with the equipment happen, to inform the Air Quality Division of such decencies. The rolling totals are exceeded due to this consumption in the 2003 information.

Operating hours should be assessed in the permit for proper evaluation of the emissions in the future.

1. The tables adds Xylene to Table No.2, to correlate parameters set forth in Table No.1
2. Request is also made to change Perchloroethylene, to read Trichloroethylene.
3. The usage is correlated based on gallons used in a year on average.
4. We have requested increases in the following gallon per year manner
    a. +80 gallons for Toluene
    b. –57 gallons for 805 Resin
    c. +55 gallons for Mineral Spirits
    d. +10 gallons for IPA
    e. +20 gallons of Various Paints

Please make the proper amendments to the permit. Contact me with any questions regarding any of the information (918-445-4300).

Michael Lowther

80 gal

Michael Lowther
Operations Manager

1320 gal/yr (1 yr/52

99-026-O(M-2)

LIMCO Airepair, Inc. & Aeroduct

RECEIVED
FEB 20 2004
By

Attn: Terry Joyner
Oklahoma Department of Environmental Quality
Air Quality Division
Tulsa, OK. 74105

Permit Modification : 99-026-O (M-1)

The following information has been requested to be made to Limco Airepair, Inc. Air Permit to properly assess the emissions from the facility.

Table No.1

PRODUCT	PPH	TPY	LBS/GAL	POUNDS PER YEAR
TOLUENE	2.396307	5.061	7.23	10122
805 RESIN	0.199337	0.421	8.42	842
TRICHLORO	1.504356	3.1772	12.22	6354.4
MEK	3.200758	6.76	6.76	13520
MINSPIRITS	0.532836	1.12535	6.34	2250.7
IPA	0.815578	1.7225	6.5	3445
PAINTS	0.215426	0.45498	9.0996	909.96
XYLENE	0.186458	0.39765	7.16	787.6

TOTAL VOC 19.11968TPY
TOTAL HAPS 8.63585TPY

Table No.2

PRODUCT	GPD	GPY
TOLUENE	5.3030	1400.0000
805 RESIN	0.3788	100.0000
TRICHLOROETHYLENE	1.9697	520.0000
MEK	7.5758	2000.0000
MINSPIRITS	1.3447	355.0000
IPA	2.0076	530.0000
PAINTS	0.3788	100.0000
XYLENE	0.4167	110.0000

OPERATING LIMITS

5.5DAYS
16HOURS
22DAYS
352HOURS/MONTH
4224HOURS/YEAR

DEQ LANDOWNER NOTIFICATION AFFIDAVIT

Tier I, II, or III permit applications in which the applicant does not own all the land subject to the application must notify the owner(s). The basis for this requirement is Title 27A of the Oklahoma Statutes, Supplement 1996, § 2-14-103(9), as described in OAC 252:002-15-30(b)(3).

Please note that you MUST fill out and return this affidavit even if you don't have to give any landowner notice.

A	NOTICE TO THE LANDOWNER(S) IS NOT REQUIRED because: (check one)		
	My application does not involve any land.	☑	My application involves only land owned by me (or applicant business).

OR

B	NOTICE TO THE LANDOWNER(S) IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the following (check one):		
	Landowner(s)		Lessor or Administrator or Executor of the land
METHOD OF DELIVERY (check one):			
	Actual notice, for which I have a signed and dated receipt		
	Service by Sheriff or private process server, for which I have an affidavit		
	Service by certified mail, restricted delivery, for which I have a signed return receipt		
	Legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence		
MY RIGHT TO USE THIS LAND is by:			

	Lease		Easement		Other, Specify		

LANDOWNER AFFIDAVIT CERTIFICATION					
I, as the applicant or an authorized representative of the applicant, hereby certify that notice to the landowner(s) about the permit application for the facility described below was provided per Option A or B above.					
Company Name	Limco Airepair, Inc.		Facility Name	Limco Airepair, Inc.	
Facility Address or Legal Description.	5304 S. Lawton Ave. Tulsa, Oklahoma 74107				
Responsible Official (signature)	Michael Lowther			Date Signed	2/17/04
Responsible Official (typed)	Michael Lowther		Title	Operations Manager	

If the landowner notice applies to your application (Option B above) you can send the following form to them as your notice:

NOTICE TO LANDOWNER OF FILING

Dear Landowner: (Name)_____

(Applicant name)_____ has filed a permit application with the Oklahoma Department of Environmental Quality for (Name)_____ facility.

This application involves the land owned by you located at:

Address or Legal Description:_____

_____

Signed:_____ Date:_____

LIMCO • AIREPAIR, INC.

VENDOR: ODEQ

CHECK NO. 003097

VOUCHER NO.	INVOICE NO.	INVOICE DATE	INVOICE AMOUNT	AMOUNT PAID	DISCOUNT TAKEN	NET CHECK AMOUNT
057004	PERMIT04	02/19/04	500.00	500.00	.00	500.00
				Check Total		500.00

CHECK NO. CHECK DATE VENDOR NO.
3097 02/19/04 ODEQ

CHECK NO. 003097

LIMCO Airepair, Inc.
5304 S. Lawton Ave.
Tulsa, Oklahoma 74107
(918) 445-4300 • Fax (918) 446-8704

UMB BANK NA
39-61/1030

CHECK AMOUNT
$******500.00

FIVE HUNDRED AND 00/100 DOLLARS

PAY TO THE ORDER OF
DEPT. OF ENVIROMENTAL QUALITY
FINANCIAL& HUMAN RESOURCES MGT
P.O. BOX 2036
OKLAHOMA CITY OK 73101
USA

AUTHORIZED SIGNATURE

Security features are included. Details on back.

MP

⑈003097⑈ ⑆103000619⑆ 9871335887⑈

Output Text

Summary | Auto-Distances | Discrete | Complex | Cavity

Maximum Concentrations

Calculation Procedure	Maximum Conc.	Distance To Max.
	(µg/m³)	(m)
Simple Ter	630.39	14.00
Cavity 1	71.25	22.86
Cavity 2	85.51	21.62

Note: Distance to Max is cavity length and Terrain Height is cavity height for cavity concentions.

View Output File

Point Source

	English		Metric	
Emission Rate:	1.0000	(lb/hr)	0.1260	(g/s)
Stack Height:	15.0000	(ft)	4.5720	(m)
Stack Diameter:	1.5000	(ft)	0.4572	(m)
Exit Velocity:	28.2933	(fps)	8.6238	(mps)
Flow Rate:	2999.91	(acfm)	1.4158	(m³/s)
Exit Temperature:	80.0001	(°F)	299.8167	(°K)

Building

Height:	15.0000	(ft)	4.5720	(m)
Length:	150.0000	(ft)	45.7200	(m)
Width:	125.0000	(ft)	38.1000	(m)

630.39 x .4 = 252.2 µg/m³/#

EMISSION = 2.35 PPH

GLC = 2.35 x 252.2

MAX = 592.6 µg/m³

FACID #3620

99-026-0(M-1)

LIMCO

LIMCO Airepair, Inc.

RECEIVED
NOV 27 2013
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

November 25, 2013

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☑	☐	2013

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

LAC 12/16/13

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15189	ARR000016733	ARD981057870	1045	S01 ✓
15251	ARR000016733	ARD981057870	7265	S01 ✓
24432	ARR000016733	ARD069748192	0	S01
24432	ARR000016733	ARD981057870	1365	S01 ✓

Total amount **this page** in **Pounds** 9,675

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date 11-25-13

Typed Name of Authorized Agent Bill Williams email: bwilliams@limcoairepair.com

| | | |

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☐	☑	2013

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15189	ARR000016733	ARD981058708	1180	S01
15251	ARR000016733	ARD981058708	4552	S01
24432	ARR000016733	ARD069748192	0	S01
24432	ARR000016733	ARD981058708	0	S01

VAC 1/23/14

Total amount **this page** in **Pounds** 5,732

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date 1-9-14

Typed Name of Authorized Agent Bill Williams email: bwilliams@limcoairepair.com

LIMCO Airepair, Inc.

RECEIVED
JAN 13 2014
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

January 9, 2014

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☑	☐	2013

Business / Plant Name: LIMCO AIREPAIR, INC. REVISED QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15189	ARR000016733	ARD981057870	1045	S01
15251	ARR000016733	ARD981057870	7265	S01
24432	ARR000016733	ARD069748192	0	S01
14001	ARR000016733	ARD981057870	1365	S01

Total amount **this page** in **Pounds** 9,675

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date

Typed Name of Authorized Agent Bill Williams email: bwilliams@limcoairepair.com

LAC 2/20/14

RECEIVED
FEB 14 2014
WATER QUALITY DIVISION

QUARTERLY REPORT

Large Quantity Generators of Hazardous Waste

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Disposal Plan No.: 728097

EPA I.D. No.

OKR000000612

RECEIVED
DEC 2013
WATER QUALITY DIVISION

Land Protection Division
Attn:
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405)702-5100

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, § 2-7-103 and § 2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty days after the end of the quarter. (See attached pages for instructions.)

For the quarter ending in

Mar.	Jun	Sep.	Dec.	Year
☐	☐	☑	☐	2013

Page 1 of 1

original report

Business / Plant Name: LIMCO AIREPAIR, INC. QUARTERLY REPORT

Plant Location: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Mailing Address: 5304 S. Lawton Ave. Tulsa, OK 74107 Phone: (918) 445-4300

Please Type or Print Clearly

1 Stream Number	2 Transporter EPA I.D. No	3 Treatment, Storage, Disposal, Recycling Facility EPA I.D. No.	4 Amount Shipped in Pounds	5 TSDF Handling Codes (required) and Comments
15189	ARR000016733	ARD981057870	1045	S01
15251	ARR000016733	ARD981057870	7265	S01
24432	ARR000016733	ARD069748192	0	S01
24432	ARR000016733	ARD981057870	1365	S01

→ 1401001

Total amount **this page** in **Pounds** 9,675

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by this facility.

Signature of Authorized Agent Bill Williams Date 11-25-13

Typed Name of Authorized Agent Bill Williams email: bwilliams@limcoairepair.com

LIMCO Airepair, Inc.

RECEIVED
FEB 18 2014
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

RECEIVED
FEB 14 2014
WATER QUALITY DIVISION

February 10, 2014

Alicia Chen
Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Alicia:

Enclosed is a revised report for the third quarter of 2013. The stream number has been changed from 24432 to 1401001, with the Transporter, TSD and amount of 1365 being the same as previously reported. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

Please refer to Section V. Line-by-Line Instructions for Completing EPA Form 8700-12 before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

Notification of Regulated Waste Activity

EPA United States Environmental Protection Agency

RECEIVED
Date Received
(For Official Use Only)
MAY 08 2001
Waste Mgmt.

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

☐ A. Initial Notification ☒ B. Subsequent Notification (Complete item C)

C. Installation's EPA ID Number: OKD981903222

II. Name of Installation (Include company and specific site name)

LINCO AIREPAIR INTERNATIONAL

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street: 4250 S. 76th STREET E. [Tulsa Airpark Int'l]

Street (Continued):

City or Town: TULSA | State: OK | Zip Code: 74145-

County Code: 143 | County Name: TULSA

IV. Installation Mailing Address (See instructions)

Street or P.O. Box: 4250 S. 76th STREET E.

City or Town: TULSA | State: OK | Zip Code: 74145-

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (Last): JOHNSON | (First): BOB

Job Title: VICE PRESIDENT | Phone Number (Area Code and Number): 918-445-4300

VI. Installation Contact Address (See instructions)

A. Contact Address Location ☐ Mailing ☐

B. Street or P.O. Box: 5304 S LAWTON AVE

City or Town: TULSA | State: OK | Zip Code: 74107-

VII. Ownership (See instructions)

A. Name of Installation's Legal Owner: TAT TECHNOLOGIES LTD.

Street, P.O. Box, or Route Number: P.O. BOX 80

City or Town: GEDERA ISRAEL | State: | Zip Code: 70750-

Phone Number (Area Code and Number): 011-972-8859

B. Land Type: P | C. Owner Type: P

D. Change of Owner Indicator: Yes ☐ No ☒ | Date Changed: Month / Day / Year

5411

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to Instructions)*

A. Hazardous Waste Activities

1. Generator (See Instructions)
   - ☐ a. Greater than 1000kg/mo (2,200 lbs.)
   - ☐ b. 100 to 1000 kg/mo (220-2,200 lbs.)
   - ☐ c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - ☐ a. For own waste only
   - ☐ b. For commercial purposes

Mode of Transportation
- ☐ 1. Air
- ☐ 2. Rail
- ☐ 3. Highway
- ☐ 4. Water
- ☐ 5. Other - specify

☐ 3. Treater, Storer, Disposer (at installation) Note: A permit is required for this activity, see instructions.

4. Exempt Boiler and/or Industrial Furnace
   - ☐ a. Smelting, Melting, and Refining Furnace Exemption
   - ☐ b. Small Quantity On-Site Burner Exemption

☐ 5. Underground Injection Control

OUT OF BUSINESS - CLOSED

C. Used Oil Management Activities

1. Used Oil Transporter/Transfer Facility - Indicate Type(s) of Activity(ies)
   - ☐ a. Transporter
   - ☐ b. Transfer Facility
2. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - ☐ a. Processor
   - ☐ b. Re-refiner

☐ 3. Off-Specification Used Oil Burner

4. Used Oil Fuel Marketer
   - ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Used Oil Burner
   - ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

OUT OF BUSINESS - CLOSED

B. Universal Waste Activity

☐ Large Quantity Handler of Universal Waste

IX. Description of Hazardous Wastes *(Use additional sheets if necessary)*

A. Listed Hazardous Wastes. *(See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)*

1	2	3	4	5	6
7	8	9	10	11	12

B. Characteristics of Nonlisted Hazardous Wastes. *(Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24; See instructions if you need to list more than 4 toxicity characteristic waste codes.)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic	(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s)) 1	2	3	4
☐	☐	☐	☐				

C. Other Wastes. *(State-regulated or other wastes requiring a handler to have an I.D. number; See instructions.)*

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title *(Type or print)*	Date Signed
Bob	BOB JOHNSON	4/20/9

XI. Comments

This building has been sold & is closed.

Note: Mail completed form to the appropriate EPA Regional or State Office. *(See Section IV of the booklet for addresses.)*

DA
3/16/94

RECEIVED
MAR 4 1994
RCRA PROGRAMS BRANCH

MEMORANDUM

Date: February 11, 1994

TO: EPA Region VI
Information Management Division
1445 Ross Avenue
Dallas, TX 75202

DA 3/10

FROM: Facility Name: Airepair International, Inc.
Mailing Address: 4250 South 76th East Avenue
City, State, ZIP: Tulsa, OK 74145
Location Address: 4250 South 76th East Avenue
City, State, ZIP: Tulsa, OK 74145
Phone number: (918) 664-5505

EPA ID number: OKD981903222

Please update our EPA notifiers information to reflect the current generator information for this facility.

Generator status:
_____ LQG (≥ 1000 kg/month)
__X__ SQG (≥ 100 kg/month and < 1000 kg/month)
_____ CEG (< 100 kg/month)
_____ No longer generate hazardous waste, still in business
_____ No longer generate hazardous waste, out of business

Printed Name: Jr Travis Owen

Signature: J. T. Owen

RECEIVED
MAR 23 1994
Hazardous Waste
Management Service

LRG

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

Please refer to Section V. Line-by-Line Instructions for Completing EPA Form 8700-12 before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

Notification of Regulated Waste Activity

EPA United States Environmental Protection Agency

Date Received (For Official Use Only)
RECEIVED
MAY 08 2001
DIVISION

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

☐ A. Initial Notification ☒ B. Subsequent Notification *(Complete item C)*

C. Installation's EPA ID Number: OKR000000612

II. Name of Installation *(Include company and specific site name)*

LIMCO AIREPAIR, INC.

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 5304 S. LAWTON AVE

Street (Continued):

City or Town: TULSA | State: OK | Zip Code: 74107-

County Code: 143 | County Name: TULSA

IV. Installation Mailing Address *(See Instructions)*

Street or P.O. Box: 5304 S. LAWTON AVE

City or Town: TULSA | State: OK | Zip Code: 74107-

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name *(Last)*: JOHNSON | *(First)*: BOB

Job Title: VICE PRESIDENT | Phone Number *(Area Code and Number)*: 918-445-4300

VI. Installation Contact Address *(See instructions)*

A. Contact Address Location ☒ Mailing ☐

B. Street or P.O. Box:

City or Town: | State: | Zip Code: -

VII. Ownership *(See instructions)*

A. Name of Installation's Legal Owner: TAT TECHNOLOGIES LTD.

Street, P.O. Box, or Route Number: P.O. BOX 80

City or Town: GEDERA ISRAEL | State: | Zip Code: 70650-

Phone Number *(Area Code and Number)*: 972-885-9541 | B. Land Type: P | C. Owner Type: P | D. Change of Owner Indicator: Yes ☐ No ☒ | Date Changed: Month Day Year

011

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

ID - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to Instructions)*

A. Hazardous Waste Activities

1. Generator (See Instructions)
   - [X] a. Greater than 1000kg/mo (2,200 lbs.)
   - [ ] b. 100 to 1000 kg/mo (220-2,200 lbs.)
   - [ ] c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below)
   - [ ] a. For own waste only
   - [ ] b. For commercial purposes

Mode of Transportation
- [ ] 1. Air
- [ ] 2. Rail
- [ ] 3. Highway
- [ ] 4. Water
- [ ] *5. Other - specify*

3. [ ] Treater, Storer, Disposer (at installation) Note: A permit is required for this activity, see instructions.
4. Exempt Boiler and/or Industrial Furnace
   - [ ] a. Smelting, Melting, and Refining Furnace Exemption
   - [ ] b. Small Quantity On-Site Burner Exemption
5. [ ] Underground Injection Control

B. Universal Waste Activity

- [ ] Large Quantity Handler of Universal Waste

C. Used Oil Management Activities

1. Used Oil Transporter/Transfer Facility - Indicate Type(s) of Activity(ies)
   - [ ] a. Transporter
   - [ ] b. Transfer Facility
2. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - [ ] a. Processor
   - [ ] b. Re-refiner
3. [ ] Off-Specification Used Oil Burner
4. Used Oil Fuel Marketer
   - [ ] a. Marketer Who Directs Shipment of Off-Specification Used Oil to Used Oil Burner
   - [ ] b. Marketer Who First Claims the Used Oil Meets the Specifications

IX. Description of Hazardous Wastes *(Use additional sheets if necessary)*

A. Listed Hazardous Wastes. *(See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)*

1	2	3	4	5	6
F001	F003	F005			
7	**8**	**9**	**10**	**11**	**12**

B. Characteristics of Nonlisted Hazardous Wastes. *(Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24; See instructions if you need to list more than 4 toxicity characteristic waste codes.)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic
[X]	[X]	[ ]	[X]

(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s))

1	2	3	4
D006	D007	D011	D040

C. Other Wastes. *(State-regulated or other wastes requiring a handler to have an I.D. number; See Instructions.)*

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title *(Type or print)*	Date Signed
	Vice President	4/23/01

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. *(See Section IV of the booklet for addresses.)*

Airepair International Inc

LIMCO Airepair, Inc. & Aeroduct

September 20, 1999

Oklahoma Dept. of Environmental Quailty
Attn: Margaret
707 N. Robinson
P.O. Box 1677
Oklahoma City, OK 73101-1677

fax 405 702-5101

SUBJECT: Transporter Waste Status

Dear Margaret,

OKR 000000612 mm

Per your telephone call and our discussion, I would like to confirm at Limco-Airepair, Inc. (EPA ID #000000612) is not a transporter of chemical hazardous waste. All of our waste is being transported by licensed waste handlers. Currently, we are using the services of a Tulsa company, Perma Fix, to dispose of our chemical waste.

Your stated that DEQ records show our status has not changed since 1996. 1995 mm I believe the company has used outside licensed transporter since 1997 and they probably forgot to notice your department of the change. Please adjust your records to reflect the change.

If you have any additional questions please call me. My direct telephone number is 918 445-4331.

Thank You,

Bob Johnson
Controller

Sent by: LIMCO AIREPAIR 9184468704; 09/20/99 12:29PM; Jetfax #733; Page 1/1

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only.

Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0246-EPA-NSN

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law (*Section 3010 of the Resource Conservation and Recovery Act*).

EPA Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received (For Official Use Only)
JUN 20 1995
RECEIVED
RCRA Programs Branch

I. Installation's EPA ID Number *(Mark 'X' in the appropriate box)*

A. First Notification	B. Subsequent Notification (complete item C)	C. Installation's EPA ID Number
[X]	[ ]	OKR000006112

II. Name of Installation *(include company and specific site name)*

AIREPAIR INTERNATIONAL, INC.

III. Location of Installation *(Physical address not P.O. Box or Route Number)*

Street: 5304 S LAWTON AVE

Street (continued):

City or Town	State	ZIP Code
TULSA	OK	74107-

County Code	County Name
TUL	TULSA

IV. Installation Mailing Address *(See instructions)*

Street or P.O. Box: 5304 S LAWTON AVE

City or Town	State	ZIP Code
TULSA	OK	74107-

V. Installation Contact *(Person to be contacted regarding waste activities at site)*

Name (last)	(first)
BROWN	JOHN

Job Title	Phone Number (area code and number)
MAINTENANCE MGR	918-445-4300

VI. Installation Contact Address *(See instructions)*

A. Contact Address Location	A. Contact Address Mailing	B. Street or P.O. Box
[X]	[ ]	

City or Town	State	ZIP Code
		-

VII. Ownership *(See instructions)*

A. Name of Installation's Legal Owner: AIREPAIR INTERNATIONAL INC

RECEIVED
JUN 20 1995
Hazardous Waste Management Service

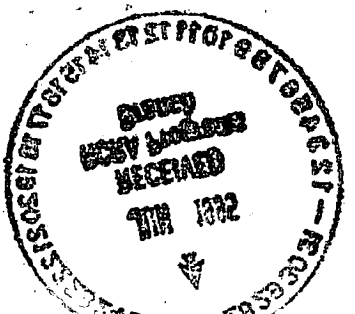
Street, P.O. Box, or Route Number: 5304 S LAWTON AVE

City or Town	State	ZIP Code
TULSA	OK	74107

Phone Number (area code and number)	B. Land Type	C. Owner Type	D. Change of Owner Indicator	(Date Changed) Month	Day	Year
918-445-4300	P	P	Yes [ ] No [ ]			

EPA Form 8700-12 (01-90) Previous edition is obsolete.

Continue on reverse


RECEIVED
1972

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 10-31-91
GSA No. 0246-EPA-07

16 - For Official Use Only

VIII. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

1. Generator (See Instructions)
   - [ ] a. Greater than 1000kg/mo (2,200 lbs.)
   - [X] b. 100 to 1000 kg/mo (220 - 2,200 lbs.)
   - [ ] c. Less than 100 kg/mo (220 lbs.)

2. Transporter (Indicate Mode in boxes 1-5 below)
   - [X] a. For own waste only
   - [ ] b. For commercial purposes

   Mode of Transportation
   - [ ] 1. Air
   - [ ] 2. Rail
   - [ ] 3. Highway
   - [ ] 4. Water
   - [ ] 5. Other - specify

3. [ ] Treater, Storer, Disposer (at installation) Note: A permit is required for this activity; see instructions.

4. Hazardous Waste Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketers
   - [ ] c. Burner - indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace

5. [ ] Underground Injection Control

B. Used Oil Fuel Activities

1. Off-Specification Used Oil Fuel
   - [ ] a. Generator Marketing to Burner
   - [ ] b. Other Marketer
   - [ ] c. Burner - Indicate device(s) - Type of Combustion Device
     - [ ] 1. Utility Boiler
     - [ ] 2. Industrial Boiler
     - [ ] 3. Industrial Furnace

2. [ ] Specification Used Oil Fuel Marketer (or On-site Burner) Who First Claims the Oil Meets the Specification

IX. Description of Regulated Wastes *(Use additional sheets if necessary)*

A. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.20 - 261.24)*

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. EP Toxic (D000)	(List specific EPA hazardous waste number(s) for the EP Toxic contaminant(s))
X	X	X	X	F002 U134 U159 D007

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1	2	3	4	5	6
7	**8**	**9**	**10**	**11**	**12**

C. Other Wastes. (State or other wastes requiring an I.D. number. See instructions.)

1	2	3	4	5	6

X. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
Gary Armstrong	Gary L. Armstrong Gen. Mgr.	6-8-95

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

AIREPAIR INTERNATIONAL 5304 S. Lawton Ave. Tulsa, Oklahoma 74107 TEL (918) 445-4370 FAX (918) 446-8704 FAA Repair Station CZ2R760K

Airepair

June 15, 1995

RECEIVED
JUN 20 1995
Hazardous Waste
Management Service

MR. AL COULTER
OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
1000 NORTHEAST TENTH STREET
OKLAHOMA CITY, OK 73117-1212

ref. EPA ID No. OKD981903222

Subject: Move of Facility

Dear Mr. Coulter,

Confirming our recent conversation about a new EPA ID Number, Airepair International, Inc. is in the process of moving from its current facility at 4250 So. 76th E. Ave., Tulsa OK 74145 to another larger facility at 5304 So. Lawton Ave., Tulsa, OK 74107. This move is not scheduled for completion until somewhat later this year. We will operate both facilities concurrently until all phases of the move are completed.

I am enclosing a completed EPA Form 8700-12 Notification of Regulated Waste Activity in order that a new ID Number may be assigned for the new location.

De-activation of ID No. OKD981903222 will be requested when all such activity completely ceases at that location.

Please submit the form at your earliest convenience.

It is believed that our status will change from that of Small Quantity Generator to Generator. We will need copies of the State Disposal Plan Application form and the instructions for completing them.

Please note that our mailing address has changed as follows:

Airepair International, Inc.
5304 So. Lawton Ave.
Tulsa, OK 741087

Your cooperation is appreciated.

Best regards,

J. Travis Owen, C.P.M.
Purchasing Manager
Environmental Coordinator

encl: EPA Form No. 8700-12
Notification of Hazardous Waste Activity

cc: Mr. Gary L. Armstrong
Mr. John Brown

LAND PROTECTION DIVISION
CONTROL SHEET

Program Code 082

Subject: Limco AirePair

Type of Letter: CEI

Date Draft Submitted: _____

Send Copies to: _____

		Initials	Date
1.	Typist Jon King	JK	5-16-2014
2.	Preparer (Add or mark through names listed below as appropriate for review of this letter)		

Letters to be submitted in draft (not on letterhead) form to the following:

3.	Preparer's Supervisor Mike E.	VJE	5/20/14
4.	Compliance		
5.	Attorney/Legal		
6.	Clerical ~~TRACI K~~		
7.	Signatory		
8.			

Final letter (prepared on letterhead & ready for mailing) to be submitted to the following:

1.	Preparer (I have re-read this letter for content & quality)		
2.	Data Entry (if applicable) Al C.	AC	5/13/14
3.	Clerical	DLH	MAY 27 2014
4.	Preparer's Supervisor		
5.	Signature		

Letter will be returned to clerical person for copying and mailing.

Date letter mailed/Initial: _____

Certified Mail # _____

(This control sheet is to be attached to file copy of **final letter** and placed in facility file.)

Revised 4/29/03

Oklahoma Department of Environmental Quality
LARGE QUANTITY GENERATOR INSPECTION REPORT

EPA ID# OKR000000612
DATE 5-6-14

Name of Facility	Owner/Operator	Phone
Limco Airrepair	Limco	918 445 4311

Facility Mailing Address	City	Zip Code	County
8304 S. Lawton	Tulsa	74107	Tulsa

Oklahoma Administrative Code (OAC) 252:205-3-2 adopts by reference certain federal regulations found in Title 40 of the Code of Federal Regulations (40 CFR). This document does not include all state and federal regulations that may be applicable. Certain non-hazardous waste regulations are included on this form as referenced by OAC 252:515.

Regulatory Requirements	Area of Non-compliance	Remarks
A. General Requirements		
A.1. Has the o/o obtained an EPA ID number? [40 CFR 262.12(a)]		yes
A.2. Has the o/o used only transporters and TSDs that have an EPA ID number? [40 CFR 262.12(c)]		yes Rhinoco
A.3. Does the o/o make a HW determination for each solid waste generated? [40 CFR 262.11] *(Identify method: X testing X knowledge of process)*		
A.4. Identify each HW storage method that applies: X containers ____ tanks ____ drip pads ____ containment buildings *(If tanks, drip pads or containment buildings are used, the appropriate supplemental checklist must also be completed)*		
A.5. Does the o/o store HW on site for ≤ 90 days? [40 CFR 262.34(a)] If yes, skip to A.6. *(Note: This item does not apply to F006 wastes that are stored > 90 days. For such wastes, complete the "Alternative Requirements for F006 Waste Management" checklist, Section J)*		yes
A.5.1. Has the DEQ granted an extension of up to 30 days? [40 CFR 262.34(b)] *(Note: If no, the facility is regulated as a HW storage facility, subject to the applicable requirements of 40 CFR Part 264/265 & 270)*		
A.6. Does the o/o ensure an accumulation start date is clearly marked and visible for inspection on each container holding HW? [40 CFR 262.34(a)(2)]		- A.O.C. 2 of 14 drums missing accumulation start date
A.7. Does the o/o ensure each tank or container holding HW is labeled or clearly marked with the words, "Hazardous Waste?" [40 CFR 262.34(a)(3)]		1 drum missing label
A.8. Does the o/o operate and maintain the facility in a manner to prevent endangerment to public health and the environment and to minimize releases of HW or constituents to air, soil, or surface water? [OAC 252:205-5-4 & 9-1/40 CFR 262.34(a)(4) → 265.31]		✓
A.9. Has the o/o obtained an approved disposal plan? [OAC 252:205-5-1]		
A.10. Does the o/o update the disposal plan as needed to identify all hazardous wastes generated, revise waste codes, add new TSD facilities, etc? [OAC 252:205-5-1(1)]		✓
B. Manifest Requirements *(Identify the number of manifests reviewed: 3)*		
B.1. Does the o/o use a manifest when HW is transported off-site? [40 CFR 262.20(a)]		yes
B.2. Does each manifest identify a receiving facility that is permitted to accept the waste? [40 CFR 262.20(b)]		yes
B.3. Does each manifest have the hand-written signature of the generator? [40 CFR 262.23(a)(1)]		yes
B.4. Does each manifest have the hand-written signature of the initial transporter and date of acceptance? [40 CFR 262.23(a)(2)]		yes
B.5. If the o/o receives manifests from the designated receiving facility within 35 days of the date the waste was accepted by the initial transporter, skip to Section C.		
B.5.1. For manifests that were not received within 35 days, did the o/o contact the transporter and/or the designated receiving facility? [40 CFR 262.42(a)(1)]		NA
B.5.2. For manifests that were not received within 45 days, did the o/o submit an Exception Report to the DEQ that included both: (1) a legible copy of the manifest; AND (2) a cover letter explaining the efforts taken to locate the waste and the results of those efforts? [40 CFR 262.42(a)(2)]		NA

Regulatory Requirements	Area of Non-compliance	Remarks
C. Pre-Transport Requirements *(Note: Only applicable for HW ready for off-site shipment. If none, skip to Section D.)*		
C.1. Does the o/o package HW in accordance with applicable DOT regulations? [40 CFR 262.30]		
C.2. Does the o/o label each package in accordance with applicable DOT regulations? [40 CFR 262.31]		
C.3. Does the o/o mark each package in accordance with applicable DOT regulations? [40 CFR 262.32(a)]		NA
C.4. Does the o/o mark each container of ≤ 119 gallons with an appropriate HW label? [40 CFR 262.32(b)]		
C.5. Does the o/o placard each vehicle that will transport HW in accordance with applicable DOT regulations? [40 CFR 262.33]		
D. Satellite Accumulation Area (SAA) *(If no SAAs are in use, skip to Section E.)*		
D.1. Does the o/o accumulate ≤ 55 gallons of HW or ≤ one quart of acutely HW in each SAA? [40 CFR 262.34(c)(1)] If yes, skip to D.2.		NR
D.1.1. Has the o/o complied with the HW storage requirements for the excess waste within three days? [40 CFR 262.34(c)(2)]		NR
D.1.2. Has the o/o marked each container holding the excess accumulation of HW with the date the excess amount began accumulating? [40 CFR 262.34(c)(2)]		yes
D.2. Is each container in each SAA in good condition? [40 CFR 262.34(c)(1)(i) → 265.171] If yes, skip to D.3.		yes
D.2.1. Has the o/o transferred the waste into a container that is in good condition, or managed the waste in another way to prevent leaks? [40 CFR 262.34(c)(1)(i) → 265.171]		yes
D.3. Does the o/o ensure each container in each SAA is made of or lined with materials that are compatible with the waste being stored? [40 CFR 262.34(c)(1)(i) → 265.172]		yes
D.4. Does the o/o ensure each container in each SAA is closed, except when adding or removing waste? [40 CFR 262.34(c)(1)(i) → 265.173(a)]		yes
D.5. Does the o/o ensure each container in each SAA is marked with the words "Hazardous Waste" or with other words to identify its contents? [40 CFR 262.34(c)(1)(ii)]		yes
E. Container management		
E.1. Does the o/o ensure each container of HW is in good condition? [40 CFR 262.34(a)(1)(i) → 265.171] If yes, skip to E.2.		yes
E.1.1. Has the o/o transferred the waste into a container that is in good condition, or managed the waste in another way to prevent leaks? [40 CFR 262.34(a)(1)(i) → 265.171]		yes
E.2. Does the o/o ensure each container of HW is made of or lined with materials that are compatible with the waste being stored? [40 CFR 262.34(a)(1)(i) → 265.172]		yes
E.3. Does the o/o ensure each container of HW is closed, except when adding or removing waste? [40 CFR 262.34(a)(1)(i) → 265.173(a)]		yes
E.4. Does the o/o ensure each container of HW is opened, handled, or stored in a manner to prevent ruptures or leaks? [40 CFR 262.34(a)(1)(i) → 265.173(b)]		yes
E.5. Does the o/o ensure each HW container storage area is inspected at least weekly for leaks or deterioration of containers and the containment system? [40 CFR 262.34(a)(1)(i) → 265.174]		yes
E.6. Does the o/o ensure each container holding ignitable or reactive waste is stored at least 50 feet from the facility property line? [40 CFR 262.34(a)(1)(i) → 265.176]		yes
E.7. Does the o/o prevent incompatible wastes and/or materials from being placed into the same container? [40 CFR 262.34(a)(1)(i) → 265.177(a)] If yes, skip to E.8.		yes
E.7.1. Does the o/o ensure mixing of incompatible wastes and or materials is performed in a manner to prevent the generation of extreme heat, pressure, fire/explosion, violent reaction, uncontrolled toxic vapors or dust, uncontrolled flammable fumes, damage to structural integrity, or other problems that threaten human health or the environment? [40 CFR 262.34(a)(1)(i) → 265.177(a) → 265.17(b)]		yes

Regulatory Requirements	Area of Non-compliance	Remarks
E.8. Does the o/o ensure HW is not placed in an unwashed container that previously held an incompatible waste or material? [40 CFR 262.34(a)(1)(i) → 265.177(b)] If yes, skip to E.9.		ok
E.8.1. Does the o/o ensure mixing of incompatible wastes and or materials is performed in a manner to prevent the generation of extreme heat, pressure, fire/explosion, violent reaction, uncontrolled toxic vapors or dust, uncontrolled flammable fumes, damage to structural integrity, or other problems that threaten human health or the environment? [40 CFR 262.34(a)(1)(i) → 265.177(b) → 265.17(b)]		ok
E.9. Does the o/o ensure incompatible wastes and/or materials are physically separated by a dike, berm, wall, or other device? [40 CFR 262.34(a)(1)(i) → 265.177(c)]		ok
F. Air Emission Standards *(Note: Only applies to containers between 26.4 and 121.5 gal capacity storing hazardous waste with > 500 ppmw VOCs)*		
F.1. Does the o/o ensure the containers meet ONE of the following: *(Identify which standard is met)* ___ meet DOT regulations for hazardous materials transportation? [40 CFR 262.34(a)(1)(ii) → 265.1087(c)(1)(i)] OR X are equipped with a cover and closure devices forming a continuous barrier with no visible holes, gaps, or other open spaces into the interior of the container? [40 CFR 262.34(a)(1)(ii) → 265.1087(c)(1)(ii)] OR ___ are open-topped containers with an organic vapor suppressing barrier (such as an organic vapor suppressing foam) placed over the waste so that no hazardous waste is exposed to the atmosphere? [40 CFR 262.34(a)(1)(ii) → 265.1087(c)(1)(iii)]		All paint waste stored with 55 Gallon closed top with Bung Sealed No leaks
F.2. Does the o/o ensure the container covers or closure devices remain closed except when adding or removing waste or other material, when gaining access for routine activities, or for opening safety devices to avoid unsafe conditions? [40 CFR 262.34(a)(1)(ii) → 265.1087(c)(3)]		yes
F.3. Has the o/o attempted initial repairs of defects in containers, covers, or closure devices within 24 hours of detection? [40 CFR 262.34(a)(1)(ii) → 265.1087(c)(4)(iii)]		~~yes~~ NO
F.4. Did the o/o complete repairs within 5 calendar days after detection or remove hazardous waste from the container until repairs could be completed? [40 CFR 262.34(a)(1)(ii) → 265.1087(c)(4)(iii)]		NA
G. Personnel Training		
G.1. Has the o/o developed and implemented a training program for those employees who manage HW? [40 CFR 262.34(a)(4) → 265.16(a)] If no, skip to G.2.		yes
G.1.1. Does the o/o ensure the training is directed by a person trained in HW management procedures? [40 CFR 262.34(a)(4) → 265.16(a)(2)]		yes
G.1.2. Does the o/o ensure the training includes EACH of the following (as applicable to the facility): (1) procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment; (2) key parameters for automatic waste feed cut-off systems; (3) use of communications or alarm systems; (4) responses to fires or explosions; AND (5) procedures for shutdown of operations? [40 CFR 262.34(a)(3) → 265.16(a)(3)] *(Note: OSHA emergency response training that includes these items is satisfactory for meeting this requirement)*		yes For Employees who Manage And Handle Hazardous waste.
G.2. Does the o/o ensure each new or reassigned employee receives training within 6 months of employment or reassignment? [40 CFR 262.34(a)(4) → 265.16(b)]		yes All truing completed within first 2 years of Hiring
G.3. Does the o/o ensure each employee receives an annual review of training? [40 CFR 262.34(a)(4) → 265.16(c)]		yes
G.4. Does the o/o maintain EACH of the following records at the facility: (1) the job title & name of each employee for all positions related to HW management; (2) a written job description for each position related to HW management, to include requisite skill, education, or other qualifications; (3) a written description of the type and amount of introductory and continuing education to be provided to the employee in each position; AND (4) records to document employee training? [40 CFR 262.34(a)(4) → 265.16(d)]		yes Training records maintained online with employee Job and Skill requirements
G.5. Does the o/o maintain training records of former employees for at least 3 years after employment ended? [40 CFR 262.34(a)(4) → 265.16(e)]		yes

Oklahoma Department of Environmental Quality
LARGE QUANTITY GENERATOR INSPECTION REPORT

EPA ID# OKR000000 612
DATE 5-6-14

Regulatory Requirements	Area of Non-compliance	Remarks
H. Preparedness & Prevention		
H.1. Does the o/o provide internal communications or an alarm system capable of providing immediate emergency instruction to personnel? [40 CFR 262.34(a)(4) → 265.32(a)]		yes
H.2. Does the o/o provide a telephone or radio that is immediately available to call emergency personnel? [40 CFR 262.34(a)(4) → 265.32(b)]		yes PA system
H.3. Does the o/o provide fire extinguishers, spill control equipment, decontamination equipment, and water at adequate volume and pressure? [40 CFR 262.34(a)(4) → 265.32(c) and (d)]		yes spill control located throughout facility
H.4. Does the o/o ensure all facility communications, alarms, fire protection equipment, and spill control equipment is tested and maintained as necessary to assure proper operation? [40 CFR 262.34(a)(4) → 265.33]		yes
H.5. Does the o/o ensure all personnel managing hazardous waste have immediate access to an internal alarm or emergency communication device? [40 CFR 262.34(a)(4) → 265.34(a)]		yes
H.6. When only one employee is on the premises, does the o/o ensure the employee has immediate access to a device capable of summoning external emergency assistance? [40 CFR 262.34(a)(4) → 265.34(b)]		NA
H.7. Does the o/o ensure there is sufficient aisle space to allow unobstructed movement of personnel and equipment in storage areas? [40 CFR 262.34(a)(4) → 265.35]		yes
H.8. Has the o/o provided local authorities with facility layout, properties of HW, locations of work areas, road entrances and evacuation routes? [40 CFR 262.34(a)(4) → 265.37(a)(1)]		yes
H.9. Has the o/o made agreements with emergency response contractors and equipment suppliers? [40 CFR 262.34(a)(4) → 265.37(a)(3)]		yes → SYRCO
H.10. Has the o/o provided local hospitals with properties of HW handled and types of injuries possible? [40 CFR 262.34(a)(4) → 265.37(a)(4)]		yes
I. Contingency Plan and Emergency Procedures		
I.1. Does the o/o have a contingency plan at the facility? [40 CFR 262.34(a)(4) → 265.51(a) & 53(a)]		yes
I.2. Has the o/o provided a copy of the contingency plan to all applicable local police and fire departments, hospitals, and emergency response teams? [40 CFR 262.34(a)(4) → 265.53(b)]		yes
I.3. Does the contingency plan describe actions to be taken by facility personnel in response to fires, explosions, or releases of HW or HW constituents? [40 CFR 262.34(a)(4) → 265.52(a)]		yes
I.4. Does the contingency plan include a description of the arrangements with local authorities? [40 CFR 262.34(a)(4) → 265.52(c)]		yes
I.5. Does the contingency plan include an up-to-date list of persons qualified to act as emergency coordinator? [40 CFR 262.34(a)(4) → 265.52(d)]		yes
I.6. Does the o/o ensure one person is listed as the primary emergency coordinator, with other persons listed in the order in which they will assume emergency coordinator responsibilities? [40 CFR 262.34(a)(4) → 265.52(d)]		Bill Bill Williams
I.7. Does the contingency plan include an up-to-date list of all emergency and decontamination equipment, its location, a brief description of the equipment, and a brief outline of its capabilities? [40 CFR 262.34(a)(4) → 265.52(e)]		yes
I.8. Does the contingency plan include an employee evacuation plan (to include evacuation signals, primary routes, and alternate routes)? [40 CFR 262.34(a)(4) → 265.52(f)]		yes
I.9. Did the o/o amend the contingency plan in the event of a regulatory change, plan failure during an emergency, the facility changes, the emergency coordinators change, or emergency equipment changes? [40 CFR 262.34(a)(4) → 265.54]		yes
I.10. Does the o/o ensure the emergency coordinator is on-site or on-call at all times? [40 CFR 262.34(a)(4) → 265.55]		yes
I.11. Does the o/o ensure the emergency coordinator is thoroughly familiar with all aspects of the contingency plan, facility operations, wastes managed, location of records, and has the authority to commit the resources to carry out the contingency plan? [40 CFR 262.34(a)(4) → 265.55]		yes
I.12. If there have been no incidents requiring implementation of the contingency plan, skip to Section J. *(**Note:** Identify date(s), nature, and quantities of releases)*		
I.12.1. Did the o/o carry out the provisions of the contingency plan during a fire, explosion, or release of HW or HW constituents? [40 CFR 262.34(a)(4) → 265.51(b)]		NA NA
I.12.2. Did the o/o immediately notify the DEQ? [OAC 252:205-13-1(a)]		

Regulatory Requirements	Area of Non-compliance	Remarks
I.12.3. Did the o/o submit a written report to the DEQ regarding the incident that included all of the following: (1) name, address, and phone number of the o/o; (2) name, address, and phone number of the facility; (3) date, time, and type of incident; (4) name and quantity of materials involved; (5) extent of any injuries; (6) assessment of actual or potential hazards to health or the environment; and (7) estimated quantity and disposition of material resulting from the incident? [40 CFR 262.34(a)(4) → 265.56(j)]		NA
I.12.4. Did the o/o ensure proper disposal of wastes generated as a result of the incident? [OAC 252:205-13-1(e)]		NA
J. Alternative Requirements for F006 Waste Management *(Note: Only applies to LQGs that store F006 waste > 90 days)*		
J.1. Does the o/o store F006 waste for ≤ 180 days (or ≤ 270 days if the waste must be transported more than 200 miles)? [40 CFR 262.34(g) and (h)] If yes, skip to J.2.		
J.1.1. Has the DEQ granted an extension of up to 30 days? [40 CFR 262.34(i)] *(Note: If no, the facility is regulated as a HW storage facility, subject to the applicable requirements of 40 CFR Part 264/265)*		
J.2. Has the o/o implemented pollution prevention practices that reduce the amount of hazardous substances, pollutants, or contaminants entering the F006 wastestream or otherwise entering the environment? [40 CFR 262.34(g)(1)]		
J.3. Does the o/o ensure the F006 waste is legitimately recycled through metals recovery? [40 CFR 262.34(g)(2)]		
J.4. Does the o/o ensure ≤ 20,000 kg (22 tons) of F006 waste is stored at all times? [40 CFR 262.34(g)(3)] If yes, skip to J.5		
J.4.1. Has the DEQ granted an exception to the accumulation limit? [40 CFR 262.34(i)] *(Note: If no, the facility is regulated as a HW storage facility, subject to the applicable requirements of 40 CFR Part 264/265)*		
J.5. Does the o/o ensure each container storing F006 waste meets all container storage requirements? [40 CFR 262.34(g)(4)(i)(A)]		NA
J.6. Does the o/o ensure each tank storing F006 waste meets all tank storage requirements? [40 CFR 262.34(g)(4)(i)(B)]		
J.7. Does the o/o ensure each containment building storing F006 waste meets all containment building requirements? [40 CFR 262.34(g)(4)(i)(C)] If N/A, skip to J.8.		
J.7.1. Does the o/o maintain ONE of the following: *(Identify which standard is met)* ___ a written description of: (1) procedures to ensure F006 waste remains in the building no longer than 180/270 days, (2) waste generation and management practices to demonstrate the 180/270-day limit is respected, and (3) documentation that the procedures are complied with?? [40 CFR 262.34(g)(4)(i)(C)(1)] OR ___ documentation that the unit is emptied at least once every 180/270 days? [40 CFR 262.34(g)(4)(i)(C)(2)]		
J.8. Does the o/o ensure the accumulation start date is clearly marked and visible for inspection on each container of F006 waste? [40 CFR 262.34(g)(4)(iii)]		
J.9. Does the o/o ensure each container and tank of F006 waste is clearly marked with the words "Hazardous Waste?" [40 CFR 262.34(g)(4)(iv)]		
K. Recordkeeping and Reporting		
K.1. Does the o/o maintain a copy of each manifest for at least 3 years? [40 CFR 262.40(a)]		Yes
K.2. Does the o/o maintain a copy of each Biennial Report and Exception Report for at least 3 years? [40 CFR 262.40(b)]		Yes
K.3. Does the o/o maintain a copy of test results, waste analyses, or other determinations for at least 3 years from the date the waste was last shipped to an on-site or off-site TSD facility? [40 CFR 262.40(c)]		Yes
K.4. Does the o/o prepare and submit a Biennial Report to the DEQ by March 1st of each even numbered year, or April 1st if approved by DEQ? [40 CFR 262.41(a)]		Yes
K.5. Does the o/o submit quarterly reports to the DEQ within 60 days of the end of each quarter? [OAC 252:205-5-3(a)]		Yes
K.6. Does the o/o ensure quarterly reports include EACH of the following: (1) the wastestream number from the disposal plan; (2) the EPA ID number of all transporters that transported waste; (3) the EPA ID number of the receiving facility; AND (4) the receiving facility handling codes? [OAC 252:205-5-3(b)]		Yes
K.7. Does the o/o ensure quarterly reports reflect HW treated on-site? [OAC 252:205-5-3(c)]		NA

Regulatory Requirements	Area of Non-compliance	Remarks
K.8. For any wastes shipped outside the United States, does the o/o submit to the DEQ, copies of manifests signed by the receiving facility for those wastes? [OAC 252:205-5-5(b)]		NA
L. Land Disposal Restrictions		
All generators		
L.1. Has the o/o determined if each hazardous waste generated meets the treatment standards of 40 CFR 268.40, 268.45, or 268.49? [40 CFR 268.7(a)(1)]		ok
L.2. For each hazardous waste that *does not* meet the applicable treatment standard, did the o/o include a one-time written notice with the initial shipment of such waste to the designated receiving facility that included EACH of the following: (1) waste codes and manifest number of the shipment; (2) notification that the waste is subject to LDR; (3) constituents of concern for F001-F005 and F039 wastes; (4) identification of underlying hazardous constituents; (5) applicable wastewater/non-wastewater category and subdivisions; (6) waste analysis data, when available; (7) required information regarding hazardous debris (if applicable); AND (8) required information regarding contaminated soil (if applicable)? [40 CFR 268.7(a)(2)]		ok
L.3. For each hazardous waste that *does* meet the applicable treatment standard, did the o/o include a one-time written notice with the initial shipment of such waste to the designated receiving facility that included EACH of the following: (1) waste codes and manifest number of the shipment; (2) notification that the waste is subject to LDR; (3) constituents of concern for F001-F005 and F039 wastes; (4) identification of underlying hazardous constituents; (5) applicable wastewater/non-wastewater category and subdivisions; (6) waste analysis data, when available; (7) required information regarding contaminated soil (if applicable); AND (8) required certification? [40 CFR 268.7(a)(3)]		ok
L.4. For each hazardous waste the o/o chose *not* to determine whether the waste met the treatment standard, did the o/o EITHER: *(Identify which standard is met)* X comply with item L.2. OR ___ provide a one-time written notice with the initial shipment that included (1) the waste codes and manifest number of the first shipment and (2) a certification stating, "This hazardous waste may or may not be subject to the LDR treatment standards. The treatment facility must make this determination." [40 CFR 268.7(a)(2)]		JR
L.5. Does the o/o maintain supporting data for his determination of the LDR status for each hazardous waste generated? [40 CFR 268.7(a)(6)]		ok JR
L.6. Does the o/o maintain copies of LDR notifications and supporting documents on site for at least 3 years after the waste was last shipped off-site? [40 CFR 268.7(a)(8)]		
Standards for generators who treat waste onsite to meet LDR standards		
L.7. Has the o/o developed a written waste analysis plan that meets EACH of the following requirements: (1) describes the procedures to be used to meet the treatment standards; (2) is based on a detailed chemical/physical analysis of a representative sample of the waste; (3) contains all information necessary to treat the waste; AND (4) is maintained in the facility files? [40 CFR 262.34(a)(4) → 268.7(a)(5)]		WA
L.8. Does the o/o perform EACH of the following for those treated wastes that are shipped off-site for disposal: (1) provide a one-time written notice that contains all of the required information to the receiving disposal facility; (2) include the required certification on the notice; (3) maintain a copy of the notice in the operating record; (4) submit a new notice and certification to the disposal facility if the waste changed; AND (5) maintain a copy of the new notice and certification in the operating record? [40 CFR 262.34(a)(4) → 268.7(a)(5)(iii) → 268.7(a)(3)]		NA
L.9. Did the o/o place a notice that included EACH of the following in the facility operating record: (1) name and address of the Subtitle D facility receiving the waste; (2) description of waste as generated, to include applicable waste codes, treatability groups, and underlying hazardous constituents; (3) signature of an authorized representative; AND (4) certification found at 40 CFR 268.7(b)(4) {or (b)(4)(iv), if applicable}? [40 CFR 268.9(d)]		NA

Oklahoma Department of Environmental Quality
LARGE QUANTITY GENERATOR INSPECTION REPORT

EPA ID# OKR000000 6/2
DATE 5-6-14

Regulatory Requirements	Area of Non-compliance	Remarks
M. Used Oil Requirements *(Identify each used ail management pracess canducted & approximate amaunt stored)* ___ *Generatar* ___ *Transporter* ___ *Used oil fuel marketer* _____ *gallons/drums*		
Rebuttable presumptian		
M.1. Does the o/o determine the total halogen concentration of used oil generated by the facility? [40 CFR 279.21(b)] *(Identify methad: ___ testing ___ knawledge af pracess)*		NA does not generate used oil.
M.2. If the total halogen > 1,000 ppm, does the o/o manage the used oil as hazardous waste? [40 CFR 279.21(b)] If yes, skip to M.3.		
M.2.1. Has the o/o demonstrated that the used oil does not contain significant quantities of halogenated hazardous constituents? [40 CFR 279.21(b)] *(**Note:** If na, the used ail must be managed as a hazardaus waste)*		
Used Oil Storage		
M.3. Does the o/o store used oil in accordance with appropriate Spill Prevention, Control, and Countermeasures requirements (e.g. containment/diversionary structures such as dikes, berms, or retaining walls sufficiently impervious to contain oil; curbing; culverting, gutters, or other drainage systems; weirs, booms, or other barriers; spill diversion ponds; retention ponds; or sorbent materials)? [40 CFR 279.22 → 40 CFR 112.7(c)(1)]		NA
M.4. Does the o/o store used oil only in tanks, containers, or units subject to regulation under 40 CFR 264/265? [40 CFR 279.22(a)]		
M.5. Does the o/o ensure containers and above-ground tanks storing used oil are in good condition and not leaking? [40 CFR 279.22(b)]		
M.6. Does the o/o ensure containers and above-ground tanks storing used oil are marked with the words "Used Oil?" [40 CFR 279.22(c)(1)]		
M.7. Does the o/o ensure fill pipes that transfer used oil to underground storage tanks are marked clearly with the words "Used Oil?" [40 CFR 279.22(c)(2)]		
M.8. In the event of a release of used oil, did the o/o perform each of the following: (1) stop the release; (2) contain the released used oil; (3) clean up and properly manage the released used oil and other materials; AND (4) repair or replace any leaking used oil tanks or containers prior to placing them back into service? [40 CFR 279.22(d)] *(Identify date and quantity af release, if knawn)*		
On-site burning in space heaters *(**Note:** Only applies if burning used oil in on-site space heaters)*		
M.9. Does the o/o only burn used oil generated by the facility or used oil received from household do-it-yourself used oil generators? [40 CFR 279.23(a)]		
M.10. Is the space heater designed to have a maximum capacity of ≤ 0.5 million BTU/hr? [40 CFR 279.23(b)]		NA
M.11. Does the o/o ensure heater combustion gasses are vented to the ambient air? [40 CFR 279.23(c)]		
Off-site shipments (Circle each method of off-site shipment used & complete appropriate checklist section) *Self-transportation to appvd collection ctr* *Self-transportation ta aggregation point* *Tolling arrangement* *Other*		
Self-transport to Collection Center		
M.12. Does the o/o self-transport only used oil generated by the facility or used oil received from household do-it-yourself used oil generators? [40 CFR 279.24(a)]		
M.13. Does the o/o self-transport used oil only in vehicles owned by the facility or a facility employee? [40 CFR 279.24(a)(1)]		NA
M.14. Does the o/o ensure no more than 55 gallons of used oil is self-transported at any one time? [40 CFR 279.24(a)(2)]		
M.15. Does the o/o ensure the used oil is self-transported to a used oil collection center that is registered, licensed, permitted, or authorized by a state, county, or local government to manage used oil? [40 CFR 279.24(a)(3)]		
Self-transport to Aggregation Point		
M.16. Does the o/o self-transport only used oil generated by the facility? [40 CFR 279.24(b)]		
M.17. Does the o/o self-transport used oil only in vehicles owned by the facility or a facility employee? [40 CFR 279.24(b)(1)]		NA
M.18. Does the o/o ensure no more than 55 gallons of used oil is self-transported at any one time? [40 CFR 279.24(b)(2)]		
M.19. Does the o/o ensure the used oil is self-transported to an aggregation point that is owned and/or operated by the facility? [40 CFR 279.24(b)(3)]		

Regulatory Requirements	Area of Non-compliance	Remarks
Tolling Arrangement		
M.20. Does the tolling arrangement identify the type of used oil and frequency of shipments? [40 CFR 279.24(c)(1)]		
M.21. Does the tolling arrangement state that the vehicle used to transport the used oil to the processor/re-refiner is owned and operated by the processor/re-refiner? [40 CFR 279.24(c)(2)]		
M.22. Does the tolling arrangement state that the vehicle used to transport the recycled oil back to the generator is owned and operated by the processor/re-refiner? [40 CFR 279.24(c)(2)]		NA
M.23. Does the tolling arrangement state that the reclaimed oil will be returned to the generator? [40 CFR 279.24(c)(3)]		
M.24. Does the o/o comply with the tolling arrangement requirements identified above?		
M.25. Does the o/o ensure the reclaimed used oil is used as a lubricant, cutting oil, or coolant? [40 CFR 279.24(c)]		
Other		
M.26. Does the o/o only use used oil transporters that have an EPA ID number? [40 CFR 279.24]		
M.27. Does the o/o self-transport used oil in quantities ≤ 55 gallons OR only to collection centers/aggregation points identified above? If yes, skip to Section N.		
M.27.1. Does the o/o ensure used oil is delivered to ONLY: (1) another used oil transporter that has an EPA ID number; (2) a used oil processing/re-refining facility that has an EPA ID number; (3) an off-specification used oil burner that has an EPA ID number; OR (4) an on-specification used oil burner? [40 CFR 279.43(a)]		
M.27.2. Does the o/o determine whether the used oil being transported has a total halogen content above or below 1,000 ppm? [40 CFR 279.44(a)]		NA
M.27.3. Does the o/o maintain records of each used oil shipment? [40 CFR 279.46(a)]		
M.27.4. Do the shipping records contain EACH of the following: (1) the facility name and address; (2) facility EPA ID number; (3) transporter EPA ID number; (4) destination facility EPA ID number; (5) quantity of used oil; (6) signature of the used oil generator and transporter; (7) date of shipment; (8) date of delivery to destination facility; AND (9) signature of destination facility representative? [40 CFR 279.46(a) & (b)]		
M.27.5. Does the o/o maintain shipping records for at least three years? [40 CFR 279.46(d)]		
N. Universal Waste Requirements *(Identify each universal waste managed)* ___ *Batteries* ___ *Pesticides* ___ *Mercury-containing equipment* ___ *Lamps* *(Identify universal waste handler status)* ___ *Small Quantity Handler (SQH, < 5,000 kg accumulated at one time)* ___ *Large Quantity Handler (LQH, ≥ 5,000 kg accumulated at any one time)*		
N.1. Does the o/o have an EPA ID number? [40 CFR 273.32 (LQH only)]		NA does Mercury
N.2. Does the o/o ensure containers of universal waste are compatible with the type of universal waste managed in the container? [40 CFR 273.13 (SQH)/273.33 (LQH)]		Also lamps
N.3. Does the o/o label or mark each container of universal waste with the words "Universal Waste ___," "Waste ___," or "Used ___?" [40 CFR 273.14 (SQH)/273.34 (LQH)]		
N.4. Does the o/o store universal wastes for less than one year? [40 CFR 273.15(a) (SQH)/273.35(a) (LQH)] If yes, skip to N.5.		
N.4.1. Is the extended storage time solely to allow the facility to accumulate quantities of universal waste to facilitate proper off-site management? [40 CFR 273.15(b) (SQH)/273.35(b) (LQH)]		
N.4.2. Did the o/o fully document the need for the extended storage time? [40 CFR 273.15(b) (SQH)/273.35(b) (LQH)]		
N.5. Is the o/o able to demonstrate the amount of time universal wastes have accumulated (such as through labeling containers, maintaining an inventory system, handling universal wastes separately from other wastes, or another method that clearly identifies the amount of time they have accumulated)? [40 CFR 273.15(c) (SQH)/273.35(c) (LQH)]		
N.6. Has the o/o provided training to employees in management of universal wastes? [40 CFR 273.16 (SQH)/273.36 (LQH)]		

Regulatory Requirements	Area of Non-compliance	Remarks
N.7. Has the o/o prevented a release of universal waste or their residues? If yes, skip to N.8.		
N.7.1. Did the o/o immediately contain all releases? [40 CFR 273.17(a) (SQH)/273.37(a) (LQH)]		
N.7.2. Did the o/o determine if materials resulting from the release are hazardous waste and properly manage, if so? [40 CFR 273.17(b) (SQH)/273.37(b) (LQH)]		
N.8. Does the o/o ensure universal wastes are shipped only to another universal waste handler, a destination facility, or a foreign destination? [40 CFR 273.18(a) (SQH)/273.38(a) (LQH)]		NA
N.9. Does the o/o ensure universal wastes shipped off-site are packaged, labeled, marked, and placarded in accordance with applicable Department of Transportation regulations? [40 CFR 273.18(c) (SQH)/273.38(c) (LQH)]		
N.10. Does the o/o maintain records of each off-site shipment of universal waste? [40 CFR 273.39(b) (LQH only)] *(Identify the number of shipping records examined ___)*		
N.10.1. Does the o/o ensure off-site shipment records contain EACH of the following: (1) name and address of the receiving facility; (2) quantity of each type of universal waste shipped; AND (3) the date the shipment left the facility? [40 CFR 273.39(b) (LQH only)]		
N.10.2. Does the o/o maintain records of off-site shipments for at least 3 years from the date of shipment? [40 CFR 273.39(c) (LQH only)]		
O. Non-Hazardous Waste Management		
O.1. Does the o/o ensure all non-RCRA waste, if disposed in Oklahoma, is disposed at a facility permitted by the DEQ to accept such waste? [27A O.S. §2-10-301(A)(1)]		
O.2. If the o/o disposes of > 10 yd^3 per month of non-hazardous industrial waste (NHIW) at an Oklahoma solid waste disposal facility, complete the following.		ok
O.2.1. Has the o/o submitted an NHIW notification/certification to the DEQ for each NHIW to be disposed in Oklahoma? [OAC 252:515-31-2(a)]		
O.2.2. Does the notification/certification meet the requirements of OAC 252:515, Appendix G or contain equivalent information? [OAC 252:515-31-3(b)]		

INSPECTION TYPE (check each that applies)

[X] **Routine RCRA Compliance Evaluation Inspection**
[ ] **Limited RCRA Compliance Evaluation Inspection (Circle items inspected)**
[ ] **CEI Follow-up (Circle items inspected)**
[ ] **Order Follow-up (Case No./Date_____) (Circle items inspected)**
[ ] **Citizen Complaint (Complaint #_____)**

Comments:
Area of Concern: 2 of 14 drums were not dated with accumulation start date - 1 drum missing label. Photograph drums with date and drum with label. Train employees who deal with MEK waste.

Oklahoma Department of Environmental Quality
LARGE QUANTITY GENERATOR INSPECTION REPORT

EPA ID# OKR 000006812
DATE 5-6-14

I have completed an inspection of your facility to evaluate compliance with the Oklahoma Hazardous Waste Management Act (27A O.S. § 2-7-101, *et seq.*), the Oklahoma Hazardous Waste Management regulations (OAC 252:205), the federal hazardous waste management regulations (40 CFR Parts 260 – 279), and certain portions of the Oklahoma Solid Waste Management regulations (OAC 252:515).

[X] Based on this inspection, it appears your facility is in compliance with all applicable regulations and statutes that were evaluated, and no further action is required. However, if additional review of the facts established during the inspection reveals areas of non-compliance, I will notify you in writing.

[ ] Items marked as "Area of Non-compliance" represent requirements where I have identified the facility to not be in compliance with the applicable statute or regulation. ***Please correct each area of non-compliance and submit documentation to me demonstrating compliance no later than*** _____. If further review of the facts established during this inspection reveals additional areas of non-compliance or that a violation was identified in error, I will notify you in writing. If you believe I have identified an area of non-compliance in error or if additional time is needed, please submit supporting documentation or a request for an extension within this same period.

This Notice in no way limits the DEQ's authority to pursue additional enforcement such as, but not limited to, an Administrative Order and/or assessment of penalties, based on the nature or gravity of violations found, failure to respond to this Notice, or otherwise in accordance with its statutory authority.

If you have any questions regarding this Notice, please contact me.

(Printed name) Jonathan King

(Signature)

Oklahoma Department of Environmental Quality
Land Protection Division
P.O. Box 1677
Oklahoma City, OK 73101-1677
Tel: (405) 702-5100
Fax: (405) 702-5101

Print BILL WILLIAMS

Sign

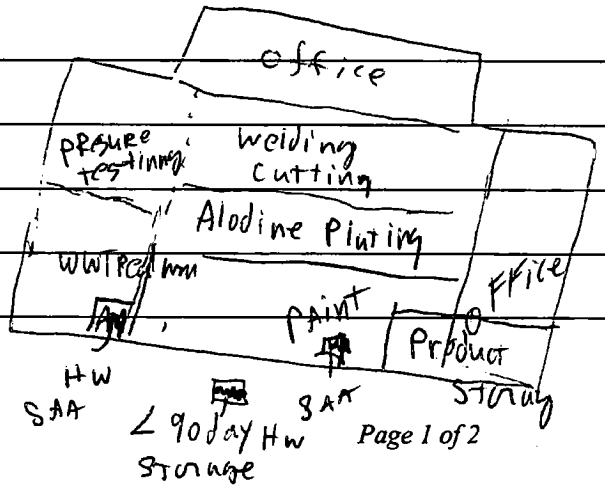
5-6-14

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
HAZARDOUS WASTE INSPECTION RECORD

Facility Information:			
Name: Limco Airepair	EPA ID #: OKR000006612	Disposal Plan #: 72 8097	Date: 5-6-12
Physical Address: 5304 S. Lawton	City: Tulsa	Zip: 74107	
Mailing Address: "	City: Tulsa	State and Zip: OK 74107	
County: Tulsa	Phone #: (918) 445-2210	# of Employees: 167	Years at Site: 15 + Yrs
Ownership: ISRAEL Based KMN Holdings and TAT technologies			
Facility Representative(s), Title(s): Bill Williams EHS Director			

Description of the Facility's Operations and Plant:

Limco Airepair Manufactures heat transfer Components for aerospace And various Military industries. products include heat exchngers, Precoolers, Airconditioners, fuel heater, and de mineralization systems used in airlines, electronics and maintenance Stations. operations are primarily Metal fabrication le grinding, welding, Cutting and threading metal components in the manufacture of Heat exchange Systems. other operations include painting, pressure testing and impregnating finished Products with alodine to examine any defects or weakness in their finished product to avoid inflight failures. facility has several HAZ waste Satelite Accumulation Areas and one less than 90 day Storage Area



Waste Streams:			
DESCRIBE EACH WASTE STREAM GENERATED INCLUDING THE PRODUCTION PROCESS	**GENERATION RATES**	**EPA WASTE CODES**	**DISPOSITION** *(include receiving facility's EPA ID#)*
Waste Paint/Solvent	2,000 lbs/month	D001, D035 F003 F005	Rhinco ARD981057870
TRIchlorethylene	500 lbs/month	D040, F001 F005	Rhinco ARD 981 057870
Acid WASTE	700 lbs/month	D002, D006 D007	Rhinco ARD981057870
Alkaline WASTE	200 lbs/month	D002, D007 D010	Rhinco ARD 981057870
Scrap Metal	- unknown -	NA	Bore Compressed Steel
Alodine Waste water	- unknown -	NA - pretreated on site, discharged and monitored By TULSA Waste water See photo log	

Comments:

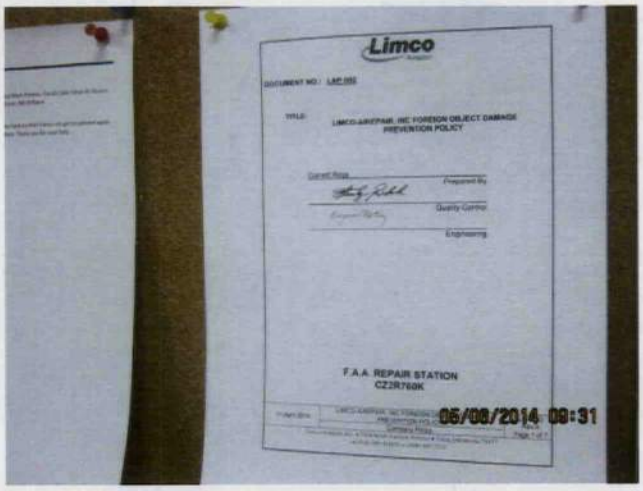
Good Facility One area of concern, Identify and label Containers in Storage Area. HAZwaste labels are Subject to Weathering and need to Be Maintained So label does not fall of Container.

Justin King

Inspector

5-6-2014

Date



Location: Limco Airepair Tulsa
Description: FAA repair certification

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Material Storage

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Material Storage

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Paint booth

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Paint Waste, SAA

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Flammable cabinet inspection

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: final product, Alodine impregnated heat exchanger.

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Alodine treating tank line. Floor drain to waste water treatment

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Acid pretreatment tanks

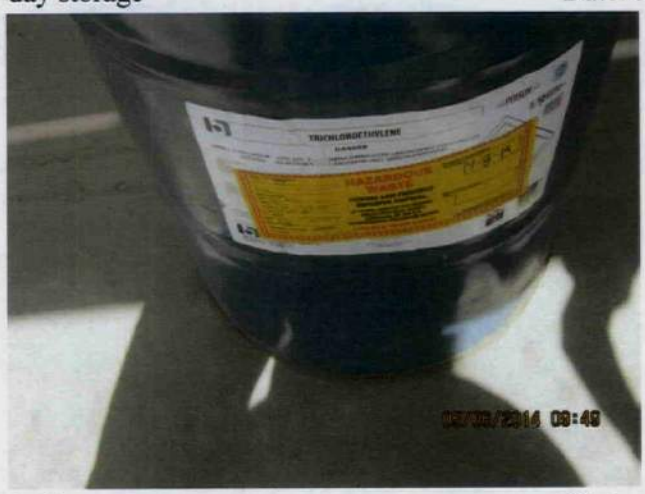
Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Alodine treatment

Photographer: Jonathan King
Date: 5-6-2014

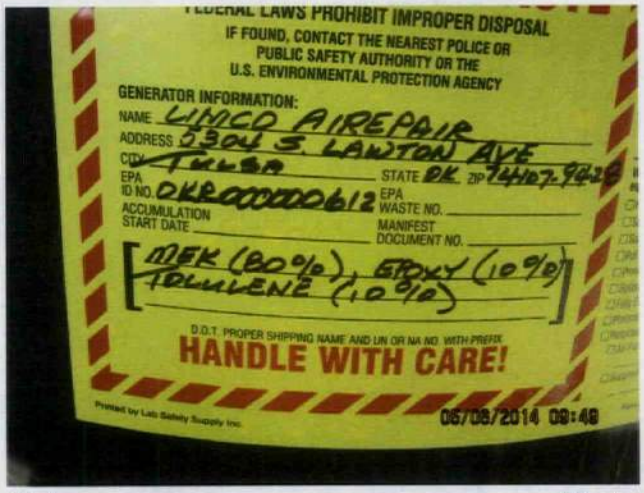
Location: Limco Airepair, Tulsa
Description: Less than 90-day storage

Photographer: Jonathan King
Date: 5-6-2014



Location: Limco Airepair, Tulsa
Description: Hazardous waste properly stored and labeled

Photographer: Jonathan King
Date: 5-6-2014



Location: Limco Airepair, Tulsa
Description: Accumulation start date missing

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Drum on left properly labeled, right drum missing label.

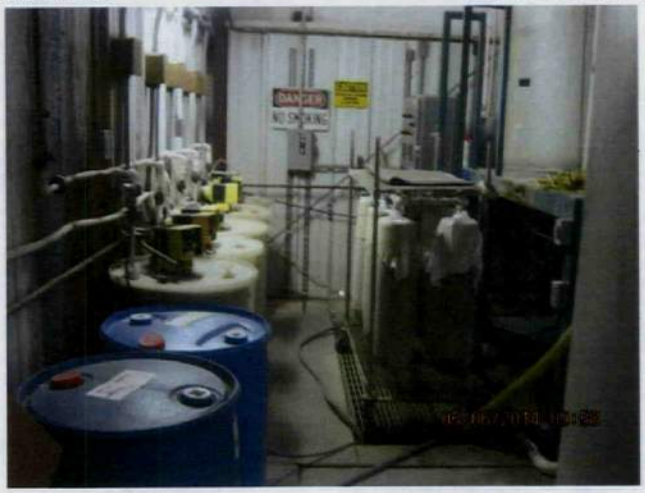
Photographer: Jonathan King
Date 5-6-2014

Location: Limco Airepair, Tulsa
Description: Scrap metal container

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Satellite accumulation

Photographer: Jonathan King
Date: 5-6-2014

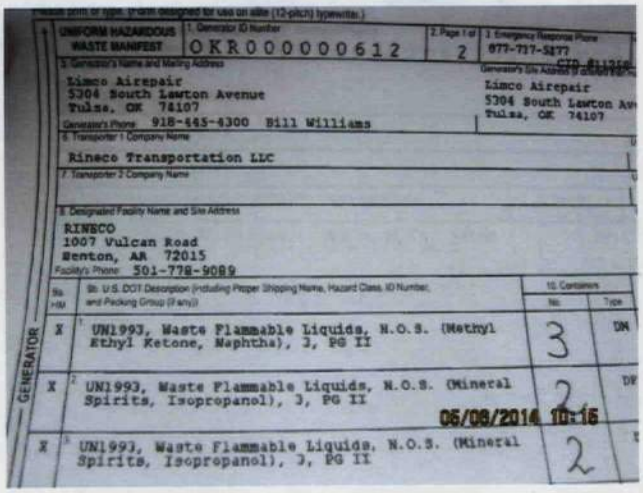


Location: Limco Airepair, Tulsa
Description: Waste water pre-treatment

Photographer: Jonathan King
Date: 5-6-2014

Location: Limco Airepair, Tulsa
Description: Final Assembly

Photographer: Jonathan King
Date: 5-6-2014



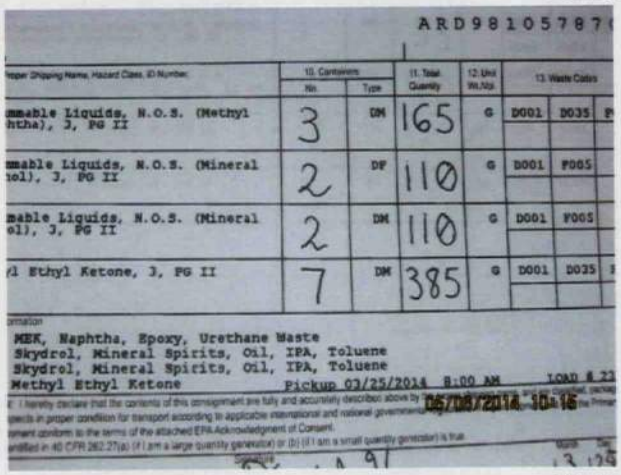
UNIFORM HAZARDOUS WASTE MANIFEST
1. Generator ID Number: OKR000000612
2. Page 1 of: 2
3. Emergency Response Phone: 877-727-5277
4. Generator's Name and Mailing Address: Limco Airepair, 5304 South Lawton Avenue, Tulsa, OK 74107
Generator's Phone: 918-445-4300 Bill Williams
Generator's Site Address: Limco Airepair, 5304 South Lawton Ave, Tulsa, OK 74107
5. Transporter 1 Company Name: Rineco Transportation LLC
6. Transporter 2 Company Name:
7. Designated Facility Name and Site Address: RINESCO, 1007 Vulcan Road, Benton, AR 72015
Facility's Phone: 501-778-9089

	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
GENERATOR	X	1. UN1993, Waste Flammable Liquids, N.O.S. (Methyl Ethyl Ketone, Naphtha), 3, PG II	3	DM			
	X	2. UN1993, Waste Flammable Liquids, N.O.S. (Mineral Spirits, Isopropanol), 3, PG II	2	DF			
	X	3. UN1993, Waste Flammable Liquids, N.O.S. (Mineral Spirits, Isopropanol), 3, PG II	2				

05/08/2014 10:16

Location: Limco Airepair, Tulsa
Description: Manifest

Photographer: Jonathan King
Date: 5-6-2014



ARD981057871

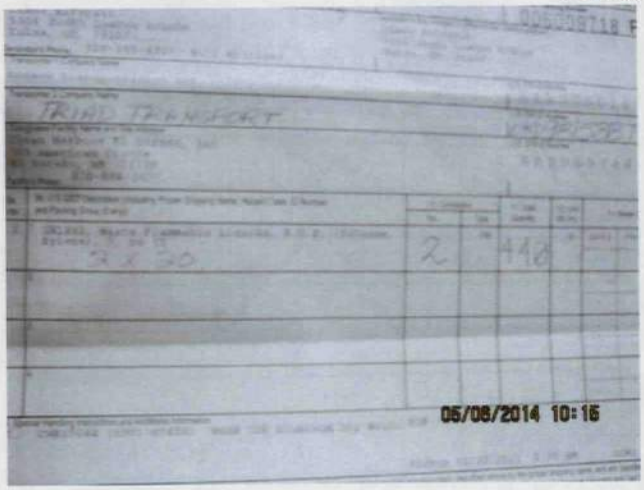
Proper Shipping Name, Hazard Class, ID Number:	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
mmable Liquids, N.O.S. (Methyl htha), 3, PG II	3	DM	165	G	D001	D035	F
mable Liquids, N.O.S. (Mineral ol), 3, PG II	2	DF	110	G	D001	F005	
mable Liquids, N.O.S. (Mineral ol), 3, PG II	2	DM	110	G	D001	F005	
l Ethyl Ketone, 3, PG II	7	DM	385	G	D001	D035	

Additional Information
MEK, Naphtha, Epoxy, Urethane Waste
Skydrol, Mineral Spirits, Oil, IPA, Toluene
Skydrol, Mineral Spirits, Oil, IPA, Toluene
Methyl Ethyl Ketone
Pickup 03/25/2014 8:00 AM LOAD # 21

05/08/2014 10:16

Location: Limco Airepair
Description: Manifest

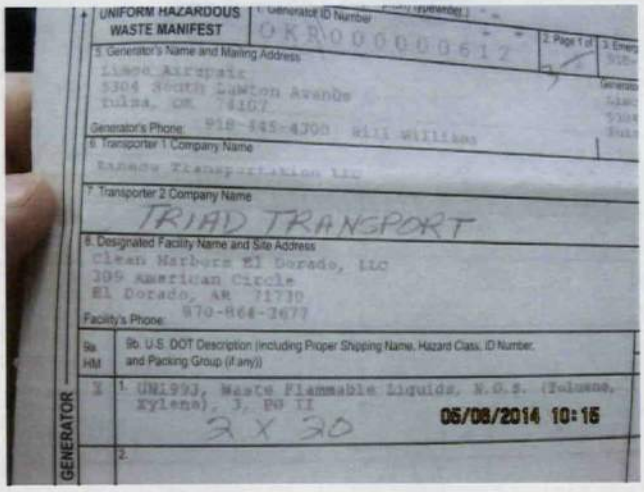
Photographer: Jonathan King
Date; 5-6-2014



05/08/2014 10:16

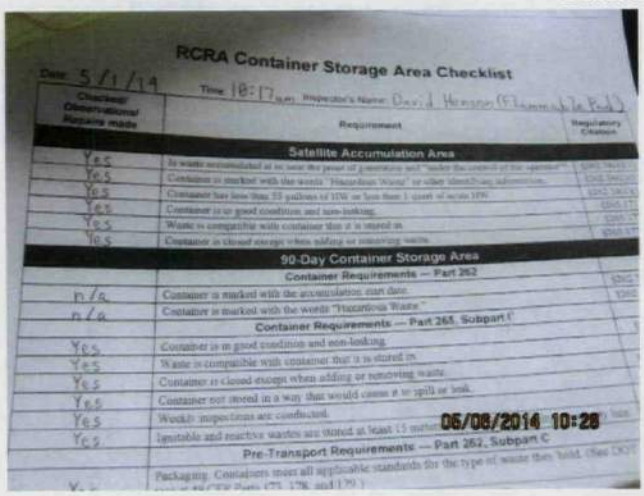
Location: Limco Airepair
Description: Manifest

Photographer: Jonathan King
Date: 5-6-2014



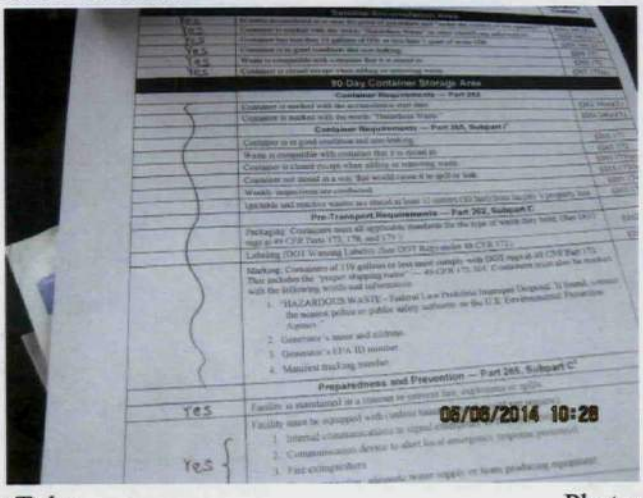
Location: Limco Airepair, Tulsa
Description: Manifest

Photographer: Jonathan King
Date: 5-6-2014



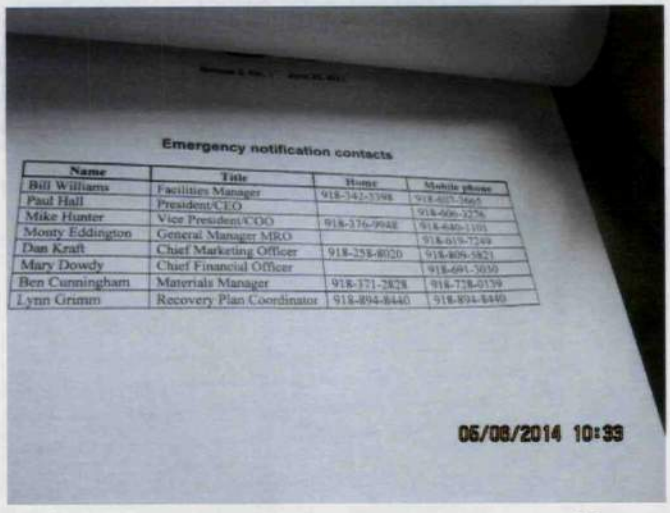
Location: Limco Airepair
Description: Weekly inspection checklist

Photographer: Jonathan King
Date: 5-6-2014



Location: Limco Airepair, Tulsa
Description: Weekly inspection checklist

Photographer: Jonathan King
Date: 5-6-2014

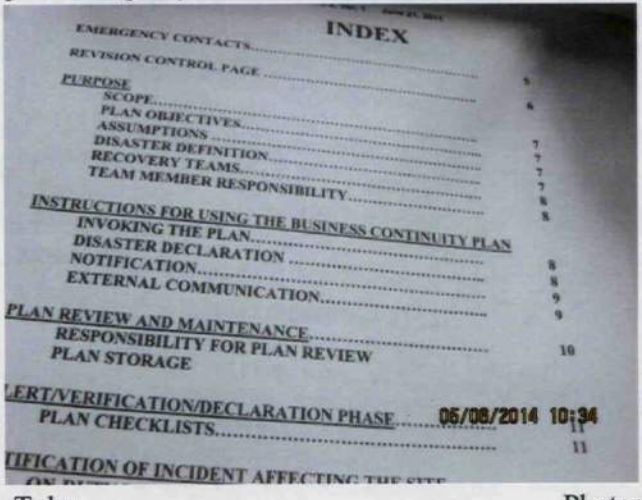


Emergency notification contacts

Name	Title	Home	Mobile phone
Bill Williams	Facilities Manager	918-342-5398	918-605-3665
Paul Hall	President/CEO		918-606-3276
Mike Hunter	Vice President/COO	918-376-9948	918-440-1101
Monty Eddington	General Manager MRO		918-619-7249
Dan Kraft	Chief Marketing Officer	918-258-8020	918-809-5821
Mary Dowdy	Chief Financial Officer		918-691-3030
Ben Cunningham	Materials Manager	918-371-2828	918-728-0139
Lynn Grimm	Recovery Plan Coordinator	918-894-8440	918-894-8440

05/06/2014 10:33

Location: Limco airepair, Tulsa
Photographer: Jonathan King
Description; Contingency plan emergency contact sheet
Date: 5-6-2014



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PLAN STORAGE
ERT/VERIFICATION/DECLARATION PHASE
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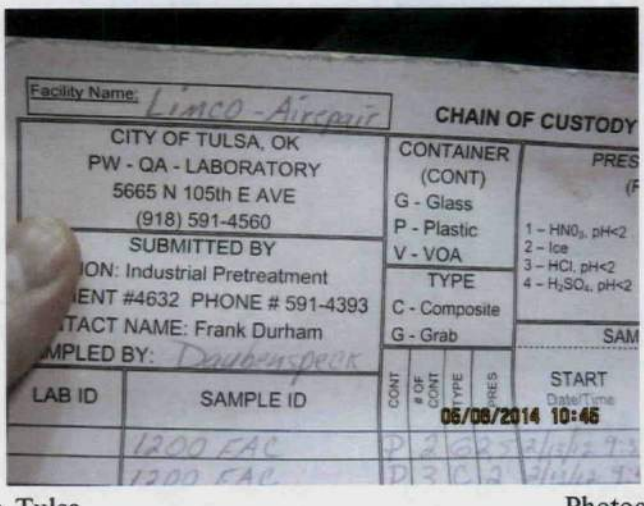
IFICATION OF INCIDENT AFFECTING THE SITE

05/06/2014 10:34

Location: Limco Airepair, Tulsa
Photographer: Jonathan King
Description: Contingency plan updated 2011. No personnel or process changes since update.
Date: 5-6-2014



Facility Name: Limco-Airepair

CHAIN OF CUSTODY

CITY OF TULSA, OK
PW - QA - LABORATORY
5665 N 105th E AVE
(918) 591-4560

SUBMITTED BY
ION: Industrial Pretreatment
IENT #4632 PHONE # 591-4393
TACT NAME: Frank Durham
MPLED BY: Daubenspeck

CONTAINER (CONT)
G - Glass
P - Plastic
V - VOA

TYPE
C - Composite
G - Grab

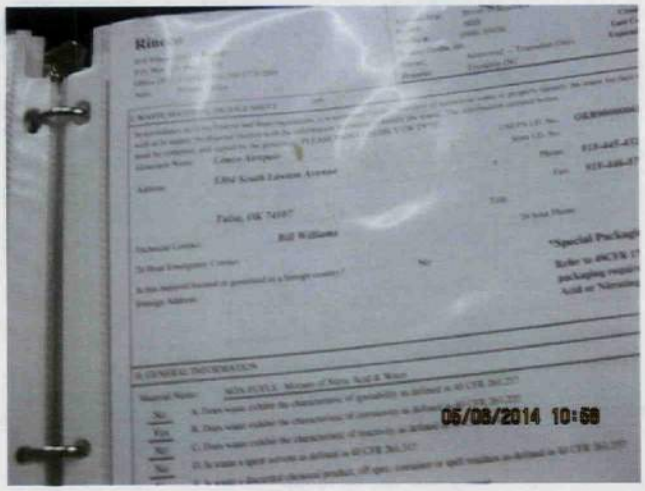
PRES
1 - HNO_3, pH<2
2 - Ice
3 - HCl, pH<2
4 - H_2SO_4, pH<2

SAM

LAB ID	SAMPLE ID	CONT	# OF CONT	TYPE	PRES	START Date/Time
	1200 EAC	P	2	G	2	5/6/14 9:3
	1200 EAC	P	3	C	2	5/6/14 9:3

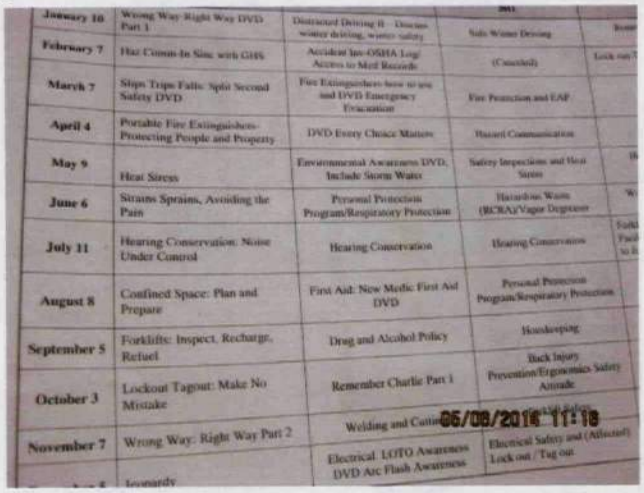
05/06/2014 10:46

Location: Limco Airepair, Tulsa
Photographer: Jonathan King
Description: city of Tulsa waste water inspection
Date: 5-6-2014



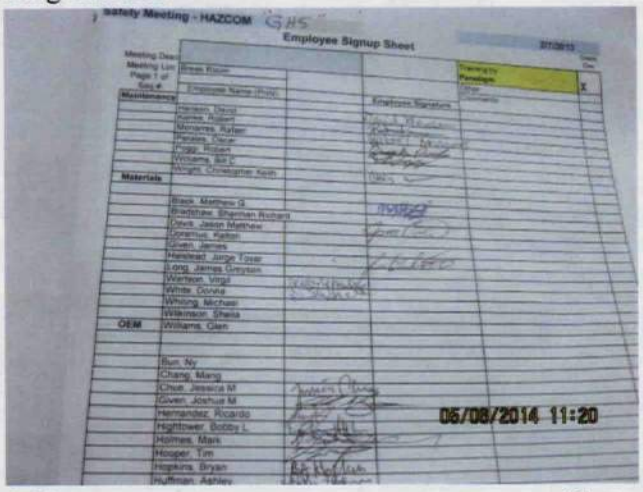
Location: Limco Airepair, Tulsa
Description: waste profiles

Photographer: Jonathan King
Date: 5-6-2014



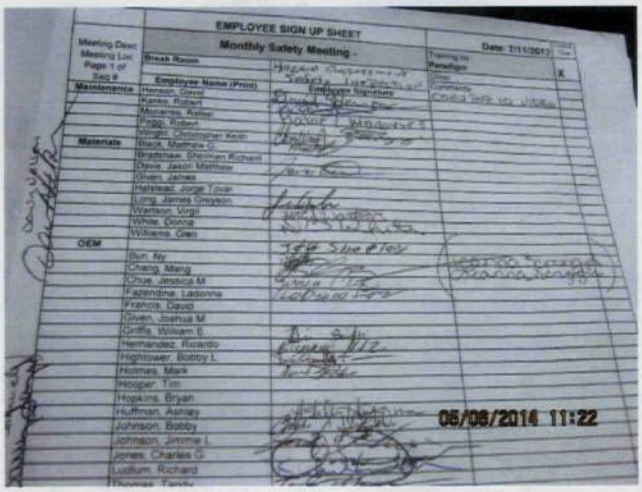
Location: Limco Airepair, Tulsa
Description: employee training schedule

Photographer: Jonathan King
Date: 5-6-2014



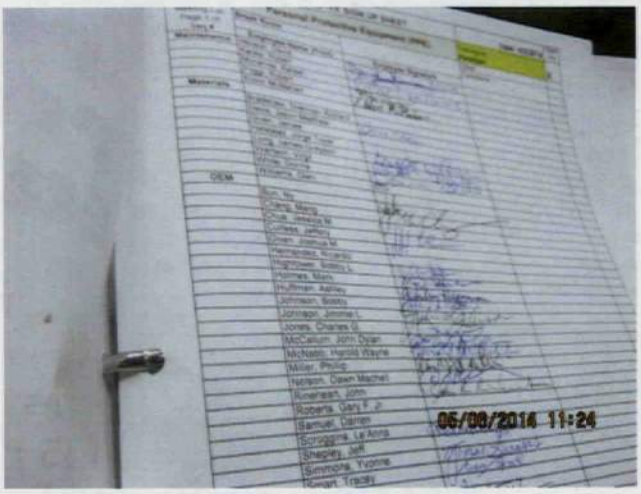
Location: Limco Airepair, Tulsa
Description: haz-communication training

Photographer: Jonathan King
Date: 5-6-2014



Location: Limco Airepair, Tulsa
Description; hazardous waste/hazardous material training

Photographer: Jonathan King
Date: 5-6-2014



Location: Limco Airepair, Tulsa
Description: PPE training

Photographer: Jonathan King
Date: 5-6-2014

Weekly RCRA Inspection Compliance Summary

04-03-2014

Hazmat Pad: Three white containers, two 55 gal drums & wood box of unidentified chemicals for disposition placed on hazmat pad.

Hazmat Pad: Drum of D12-05 13 outside storage does not have the Hazardous Waste Label. (Twelfth week)

Outside Storage: Four drums of Diesel Fuel #2 not on spill containment pallet. (Tenth Week)

Compressor Room: Drum of Brayco Micronic 889 not in proper place. (Ninth Week)

Compressor Room: Drum of Trichloroethylene not in proper place. (Ninth week)

Compressor Room: Drum of MEK not in proper place. (Second week)

Weekly RCRA Inspection Compliance Summary

04-10-2014

Hazmat Pad: Three white containers, two 55 gal drums & wood box of unidentified chemicals for disposition placed on hazmat pad.

Hazmat Pad: Drum of D12-05 13 outside storage does not have the Hazardous Waste Label. (Thirteenth week)

Hazmat Pad: Two drums of Caustic Soda & a bag of Ammonium Bifuoride not on spill containment pallet & not in proper place.

Hazmat Pad: Drum of Sulfuric Acid not on spill containment pallet & not in proper place.

Hazmat Pad: Drum of 4-2-14 MEK/Epoxy/Toluene not on containment pad.

Outside Storage: Four drums of Diesel Fuel #2 not on spill containment pallet. (Eleventh Week)

Compressor Room: Drum of Brayco Micronic 889 not in proper place. (Tenth Week)

Compressor Room: Drum of Trichloroethylene not in proper place. (Tenth week)

Compressor Room: Two pink drums of Cimcool Mildraw not in proper place.

Compressor Room: Drum of MEK not in proper place. (Third week)

Weekly RCRA Inspection Compliance Summary

04-17-2014

Hazmat Pad: Three white containers, two 55 gal drums & wood box of unidentified chemicals for disposition placed on hazmat pad.

Hazmat Pad: Drum of D12-05 13 outside storage does not have the Hazardous Waste Label. (Fourteen weeks)

Hazmat Pad: Drum steel and one pasteboard drum marked Aluminum Oxide needs a Hazardous waste label.

Flammable Pad: Pink drum of Mildraw not on pad.

Outside Storage: Drum of D1-6-14 ATP & drum of D4-17-14 ATP not in proper place.

Outside Storage: Four drums of Diesel Fuel #2 not on spill containment pallet. (Twelfth Week)

Outside Storage: Four drums of Diesel Fuel #2 not on spill pallets.

Outside Storage: Drum of MEK waste not in proper place.

Compressor Room: Drum of Brayco Micronic 889 not in proper place. (Eleven Weeks)

Compressor Room: Drum of Trichloroethylene not in proper place. (Eleven weeks)

EPA United States Environmental Protection Agency

Evaluation List

RCRAInfo Help

LIMCO AIREPAIR, INC. **TULSA** **OKR000000612**

EPA Unaddressed SNC: **N**	EPA Addressed SNC: **N**	EPA SNC with Compliance Schedule Established: **N**
State Unaddressed SNC: **N**	State Addressed SNC: **N**	State SNC with Compliance Schedule Established: **N**
Out of State SNC: **N**		

Show All Violations

2 Evaluation(s) found.

Page: 1 Go To

	Evaluations							Violations	
	Act Loc	Identifier	Type	Date	Agency	Resp Person	Evaluation Desc	Count	
1	OK	001	CEI	01/30/2007	S	OKASB	COMPLIANCE EVALUATION INSPECTION ON-SITE	9	Show Violations
2	OK	000	CEI	01/19/1999	S	OKJDS	COMPLIANCE EVALUATION INSPECTION ON-SITE	28	Show Violations

URL: /rcrainfo/cme/cme_eval_list.jsp

***** WARNING *** Sensitive information may be displayed on this report. *** WARNING ****

LIMCO AIREPAIR, INC. OKR000000612

EPA Region:06 **Extract:** Y **County:** TULSA **State District:**

Universes	Federal Generator:	LQG	Transporter:	N	Operating TSDF:	----	Active:	Y
	State Generator:	N	Importer:	N	Commercial:	N	EI Indicator (HE / GW):	N / N
	Short Term Generator:	N	Mixed Waste Generator:	N	HSM:	N	IC In Place:	N
	Subpart K/College:	N	Subpart K/Hospital:	N	Subpart K/Non-profit:	N	Subpart K/Withdrawal:	N

Latitude/Longitude Measure - Owner: OK Seq #: 1

Geometric Type Code: 001 Horizontal Collection Method: 029 Reference Point Code: 002

Horizontal Accuracy Measure: Horizontal Reference Datum: 002 Source Map Scale Numbers:

Coordinates: 36.086694 , -96.00068

Receive Date: 01/20/2012 **Source Type: Biennial Rpt w/Notification** **Seq. Number: 2** **Report Cycle: 2011**

Location Address: 5304 S. LAWTON
TULSA, OK 74107

Mailing Address: 5304 S. LAWTON
TULSA, OK 74107
UNITED STATES

Contact Person For Source Information
BILL WILLIAMS
DIRECTOR OF FACILITIES
(918) 445-4300
BILLW@LIMCOAIREPAIR.COM
5304 S. LAWTON
TULSA, OK 74107
UNITED STATES

Owner (current)
LIMCO AIREPAIR, INC.
From: 10/01/1995 To:
5304 S. LAWTON
TULSA, OK 74107
TULSA
Type: Private
Phone:

Operator (current)
LIMCO AIREPAIR, INC.
From: 10/01/1995 To:
Type: Private
Phone:

Land Type: Private Non Notifier: No TSD Date: Accessibility:

NAICS Codes: 333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

Regulated Waste Activities

Hazardous Waste Generator Status - Federal: Large Quantity Generator; State: OK-N No separately defined State status

Other Hazardous Waste Generator Activities

Short Term Generator:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
TSD Activity:	No
Recycler Activity:	No
Off-Site Receipt:	No

Exempt Boiler and/or Industrial Furnace

Small Quantity Onsite Burner Exemption:	No
Smelting, Melting, Refining Furnace Exemption:	No
Underground Injection Control:	No
Destination Facility for Universal Waste:	No

Used Oil Activities

Used Oil Transporter Activity
Transporter: No
Transfer Facility: No

Used Oil Processor and/or Re-refiner Activity
Processor: No
Refiner: No

Off-Specification Used Oil Burner: No

Used Oil Fuel Marketer Activity
Marketer who directs shipment off-specification used oil to off-specification used oil burner: No
Marketer who first claims the used oil meets the specifications: No

Subpart K

College/University:	No	Non-profit Research Institute:	No
Teaching Hospital:	No	Withdrawal:	No

Description of Hazardous Wastes (as reported on Site Identification Form)

EPA Waste Codes: D001 D002 D003 D006 D007 D035 D040 F001 F003 F005

2011 Biennial Report Information Click Here for Biennial Report Detail

Total Quantity Reported (Tons): Generated: 30 Managed: 0 Shipped: 30 Received: 0

Top 10 GM Forms Summary by Largest Quantity of Hazardous Waste Generated (All quantities are in tons)

Generated	Managed	On-site Management Methods	Shipped	Off-site Management Methods
WASTE TCE FROM PARTS DEGREASER				
13	0		13	H061 - FUEL BLENDING
EPA Waste Codes: D040 , F001				
WASTE PAINT AND SOLVENT				
12	0		12	H061 - FUEL BLENDING
EPA Waste Codes: D001 , D035 , F003 , F005				

***** WARNING *** Sensitive information may be displayed on this report. *** WARNING *****

Receive Date: 01/20/2012 **Source Type: Biennial Rpt w/Notification** **Seq. Number: 2** **Report Cycle: 2011**

Top 10 GM Forms Summary - continued (All quantities are in tons)

Generated	Managed	Onsite Management Methods	Shipped	Offsite Management Methods
WASTE ACIDS				
5	0		5	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE

EPA Waste Codes: D002

RCRA Site Detail

***** WARNING *** Sensitive information may be displayed on this report. *** WARNING *****

Receive Date: 02/03/2010 **Source Type:** Biennial Rpt w/Notification **Seq. Number:** 1 **Report Cycle:** 2009

Location Address: 5304 S. LAWTON
TULSA, OK 74107

Mailing Address: 5304 S. LAWTON
TULSA, OK 74107
UNITED STATES

Contact Person For Source Information: BILL WILLIAMS
DIRECTOR OF FACILITIES
(918) 445-4300
BILLW@LIMCOAIREPAIR.COM
5304 S. LAWTON
TULSA, OK 74107
UNITED STATES

Owner (current)
LIMCO AIREPAIR, INC.
From: 10/01/1995 To:
5304 S. LAWTON
TULSA, OK 74107
TULSA
Type: Private
Phone: (918) 445-4300

Operator (current)
LIMCO AIREPAIR, INC.
From: 10/01/1995 To:
Type: Private
Phone:

Land Type: Private | Non Notifier: No | TSD Date: | Accessibility:

NAICS Codes: 333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

Regulated Waste Activities

Hazardous Waste Generator Status - Federal: Large Quantity Generator; State: OK-N No separately defined State status

Other Hazardous Waste Generator Activities

Short Term Generator:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
TSD Activity:	No
Recycler Activity:	No
Off-Site Receipt:	No

Exempt Boiler and/or Industrial Furnace

Small Quantity Onsite Burner Exemption:	No
Smelting, Melting, Refining Furnace Exemption:	No
Underground Injection Control:	No
Destination Facility for Universal Waste:	No

Used Oil Activities

Used Oil Transporter Activity
Transporter: No
Transfer Facility: No

Used Oil Processor and/or Re-refiner Activity
Processor: No
Refiner: No

Off-Specification Used Oil Burner: No

Used Oil Fuel Marketer Activity
Marketer who directs shipment off-specification used oil to off-specification used oil burner: No
Marketer who first claims the used oil meets the specifications: No

Subpart K

College/University:	No	Non-profit Research Institute:	No
Teaching Hospital:	No	Withdrawal:	No

Description of Hazardous Wastes (as reported on Site Identification Form)

EPA Waste Codes: D001 D002 D003 D006 D007 D035 D040 F001 F003 F005

2009 Biennial Report Information Click Here for Biennial Report Detail

Total Quantity Reported (Tons): Generated: 18 Managed: 0 Shipped: 18 Received: 0

Top 10 GM Forms Summary by Largest Quantity of Hazardous Waste Generated (All quantities are in tons)

Generated	Managed	On-site Management Methods	Shipped	Off-site Management Methods
WASTE TCE FROM PARTS DEGREASER				
6	0		6	H061 - FUEL BLENDING
EPA Waste Codes: D040 , F001				
WASTE PAINT AND SOLVENT				
6	0		6	H061 - FUEL BLENDING
EPA Waste Codes: D001 , D035 , F003 , F005				
WASTE ACIDS				
3	0		3	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
EPA Waste Codes: D002				
ALODINE WASH				
2	0		2	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
EPA Waste Codes: D001 , D003 , D007				
HAZARDOUS WASTE SLUDGE				
0	0		0	H141 - STORAGE, BULKING AND/OR TRANSFER OFF SITE
EPA Waste Codes: D006 , D007				

RCRA Site Detail

***** WARNING *** Sensitive information may be displayed on this report. *** WARNING *****

Receive Date: 02/04/2009 **Source Type: Implementer** **Seq. Number: 1**

Other/Previous Site Name: LIMCO AIREPAIR INC

Location Address: 5304 S LAWTON
TULSA, OK 74107

Mailing Address: 5304 S LAWTON
TULSA, OK 74107
UNITED STATES

Contact Person For Source Information
BOB MCDONNALD
(918) 445-4300
BMCDONNALD@LIMCOAIREPAIR.COM
5304 S LAWTON
TULSA, OK 74107
UNITED STATES

Owner (current)
LIMCO AIREPAIR, INC.
From: 10/01/1995 To:
5304 S. LAWTON
TULSA, OK 74107
TULSA
Type: Private
Phone:

Operator (current)
LIMCO AIREPAIR, INC.
From: 10/01/1995 To:
Type: Private
Phone:

Land Type: Private | Non Notifier: No | TSD Date: | Accessibility:

NAICS Codes: 333415 AIR-CONDITIONING AND WARM AIR HEATING EQUIPMENT AND COMMERCIAL AND INDUSTRIAL REFRIGERATION EQUIPMENT MANUFACTURING

Regulated Waste Activities

Hazardous Waste Generator Status - Federal: Large Quantity Generator; State: OK-N No separately defined State status

Other Hazardous Waste Generator Activities

Short Term Generator:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
TSD Activity:	No
Recycler Activity:	No
Off-Site Receipt:	No

Exempt Boiler and/or Industrial Furnace

Small Quantity Onsite Burner Exemption:	No
Smelting, Melting, Refining Furnace Exemption:	No
Underground Injection Control:	No
Destination Facility for Universal Waste:	No

Used Oil Activities

Used Oil Transporter Activity

Transporter:	No
Transfer Facility:	No

Used Oil Processor and/or Re-refiner Activity

Processor:	No
Refiner:	No

Off-Specification Used Oil Burner:	No

Used Oil Fuel Marketer Activity

Marketer who directs shipment off-specification used oil to off-specification used oil burner:	No
Marketer who first claims the used oil meets the specifications:	No

Subpart K

College/University:	No	Non-profit Research Institute:	No
Teaching Hospital:	No	Withdrawal:	No

Description of Hazardous Wastes (as reported on Site Identification Form)

EPA Waste Codes: D001 D002 D004 D006 D007 D040 F001 F005

RCRA Site Detail

Report run on: April 28, 2014 - 1:34 PM

Version 5.0

User Selection Criteria

Handler EPA ID:	OKR000000612
History:	All records
BR Cycles:	Show all
Include Notes:	No

Results

Data meeting the criteria you selected follows.
Total Pages: 13

Report Description

The RCRA Site Detail report provides "all available details" from the handler module and summarized information from the waste activity monitoring module for one RCRA site. The report integrates National Biennial RCRA Hazardous Waste Report data with Site Identification data.

Details reported about the RCRA site include basic handler module information; the standard suite of universes; information about each source record received for the facility, including basic information, location and mailing address, source record and permit contact person (including historical records), list of NAICS codes, complete list of regulated waste activities; and summarized National Biennial RCRA Hazardous Waste Report information by reporting cycle year, including quantity totals (generated, managed, shipped, received), and top ten GM forms by quantity generated. Top ten GM form list shows reported waste description, quantities, onsite and offsite system types, and EPA and State waste codes.

Information listed for the RCRA site can be limited by latest historical information and most recent BR cycle.

Data is sorted by the most recent Received Date. If more than one record has the same Received Date, the data is sorted by Source Type (I-Implementer; N-Notification, B-Biennial Report with Subsequent Notification, R-Biennial Report, A-Part A, T-Temporary, E-Emergency).

Report Information

Name:	h_site_detail.rdf
Developed by:	EPA Headquarters, Office of Resource Conservation and Recovery
Deployed:	November 2002
Last Revised:	September 2012
Contact:	rcrainfo.help@epa.gov
Tables Used:	hbasic, hreport_univ5, gis4, gis_lat_long4, lu_generator_status, hother_id5, hpart_a5, hhandler5, lu_generator_status, lu_country, howner_operator5, hnaics5, lu_naics, hstate_activity5, lu_state_activity, hother_permit5, lu_other_permit, huniversal_waste5, lu_universal_waste, hwaste_code5, bgm_basic, bgm_onsite_treatment, bgm_offsite_shipment, bgm_waste_code, lu_management_method, lu_state, hid_groups, hhsm_basic5, hhsm_activity5, hhsm_waste_code5

NOTE: Some data is suppressed if it is null or blank. See documentation in RCRAInfo Help for details.

List of Hazardous Waste Code Descriptions

Please run the lookup table report for LU_WASTE_CODES for description of federal and state waste codes in this report.

List of Handler Universe Abbreviations

Active	Active Status – Indicates that the facility could be subjet to the federal RCRA, Subtitle C or a state's authorized hazardous waste program. This definition has no legally enforceable or binding determination about the status of a particular site or the oblications of an owner or operator.
Commercial TSDF	Commercial TSDF – Indicates that the facility is a commercial operator of treating, storing and disposing of hazardous waste.
EI Indicator (HE/GW)	Environmental Indicator (Human Exposure/Groundwater Release) – Indicates that the facility has controls in place for Environmental Indicators. HE - Human Exposures ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist). GW - Groundwater Release ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist).
Federal Generator	Federal Generator Status – Indicates the regulatory status of the site as determined by the quantity and/or toxicity of hazardous wastes generated, stored or accumulated over a specified period of time.
HSM	HSM – Indicates that the facility manages hazardous secondary material(s) (e.g. spent material, by-product or sludge) that when discarded, would be identified as hazardous waste.
IC In Place	Institutional Controls in Place -- Indicates that the facility has Institutional Controls in place ('Y' indicates that the facility is in the universe).
Importer	Importer – Indicates that the facility imports hazardous waste into the United States from a foreign country.
Mixed Waste Generator	Mixed Waste Generator – Indicates that the facility is a generator or TSDF that handles waste mixed with nuclear source, special nuclear or by-product material.
Operating TSDF	Operating TSDF – Indicates that the facility is a Treatment, Storage or Disposal facility subject to any type of enforcement. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment).
Short Term Generator	Short Term Generator – Indicates that the facility is a short term or one time event generator and not generating from ongoing processes.
State Generator	State Generator Status – Indicates the regulatory status of the site in view of implementing the State's "broader in scope" or "more stringent than" rules. Although an implementing State might use terms that differ for their generators these terms would be translated to match the Federal regulatory term.
Transporter	Transporter – Indicates that the facility is engaged in the off-site transportation of hazardous waste. ('Y' indicates that the facility is in this universe).
Subpart K/College	Subpart K/College or University – Indicates facility has opted into the subpart k laboratory rule as a college or university.
Subpart K/Hospital	Subpart K/Teaching Hospital – Indicates facility has opted into the subpart k laboratory rule as a teaching hospital.
Subpart K/Non-profit	Subpart K/Non-profit Research Institute – Indicates facility has opted into the subpart k laboratory rule as a non-profit research institute.
Subpart K/Withdrawal	Subpart K/Withdrawal from Rule – Indicates facility has withdrawn from the subpart k laboratory rule.

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC. County Neme / Code: TULSA / OK143 **OKR000000612**

Location: 5304 S. LAWTON; TULSA, OK 74107 **REGION 06**

Mailing: 5304 S. LAWTON; TULSA, OK 74107

Activity Location: OK State District: Accessibility: Non-Notifier: Extract Flag: Y Active Site: Y

Generator:	LQG	Transporter:	N	Operating TSDF:	——	IC In Place:	N	EI Indicator (HE / GW):	N / N
Short-Term Gen:	N	Transfer Facility:	N	Offsite Receiver:	N	HSM:	N	Subpert K:	----
Full Enforcement:	------	Converter:	------	State Unaddressed SNC:	N	EPA Unaddressed SNC:	N		
CA Wrkld:	N	State TSDF:	-------	State Addressed SNC:	N	EPA Addressed SNC:	N		
Active State Gen:	N			State SNC w/Comp Sched:	N	EPA SNC w/Comp Sched:	N		

CEI Evaluation 01/30/2007 Activity Location: OK By: STATE Identifier: 001 Person: OKASB Suborganization: OK Found Violation: YES

Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Dey Zero: 01/30/2007 Focus Area:

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE

Scheduled Complience Dete: 03/14/2007 Actual Compliance Dete: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 29

Citation Information: Seq # Type Citation Notes

1 FEDERAL REGULATION 262.34(e)

Viol. Notes: ACC DATE ON CONTAINERS

Enforcement: Activity Locetion: OK Type: 122 Action Date: 01/30/2007 Identifier: 001

Docket: Agency: STATE Responsible Person: OKASB Branch: OK

CA Component: N Disposition Status: Appeel Initiated: Appeal Resolved:

Violation: Activity Locetion: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE

Scheduled Compliance Dete: 03/14/2007 Actual Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 30

Citation Information: Seq # Type Citation Notes

2 FEDERAL REGULATION 262.34(b)

Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001

Docket: Agency: STATE Responsible Person: OKASB Branch: OK

CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE

Scheduled Compliance Date: 03/14/2007 Actuel Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 31

Citation Informetion: Seq # Type Citation Notes

3 FEDERAL REGULATION 262.34(a)(2)

Viol. Notes: ACC DATE

Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001

Docket: Agency: STATE Responsible Person: OKASB Branch: OK

CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE

Scheduled Compliance Date: 03/14/2007 Actual Compliance Dete: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 32

Citation Information: Seq # Type Citation Notes

4 FEDERAL REGULATION 262.34(e)(3)

Enforcement: Activity Locetion: OK Type: 122 Action Date: 01/30/2007 Identifier: 001

Docket: Agency: STATE Responsible Person: OKASB Branch: OK

CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC., OKR000000612, TULSA, OK, continued -

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 03/14/2007 Actual Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 33
Citation Information: Seq # Type Citation Notes
5 FEDERAL REGULATION 262.34(c)(1)(ii)
Viol. Notes: SAA CONTAINERS NOT LABELED
Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001
Docket: Agency: STATE Responsible Person: OKASB Branch: OK
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 03/14/2007 Actual Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 34
Citation Information: Seq # Type Citation Notes
6 FEDERAL REGULATION 262.34(c)(1)(i)
Viol. Notes: SAA OPEN CONTAINERS
Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001
Docket: Agency: STATE Responsible Person: OKASB Branch: OK
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 03/14/2007 Actual Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 35
Citation Information: Seq # Type Citation Notes
7 FEDERAL REGULATION 262.34(a)(1)(i)
Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001
Docket: Agency: STATE Responsible Person: OKASB Branch: OK
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 03/14/2007 Actual Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 36
Citation Information: Seq # Type Citation Notes
8 FEDERAL REGULATION 262.34(a)(4)
Viol. Notes: AISLE SPACE
Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001
Docket: Agency: STATE Responsible Person: OKASB Branch: OK
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 279.C Determined Date: 01/30/2007 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 03/14/2007 Actual Compliance Date: 03/09/2007 RTC Qualifier: OBSERVED Sequence Number: 37
Citation Information: Seq # Type Citation Notes
9 FEDERAL REGULATION 279.22(c)(1)
Viol. Notes: UO NOT LABELED
Enforcement: Activity Location: OK Type: 122 Action Date: 01/30/2007 Identifier: 001
Docket: Agency: STATE Responsible Person: OKASB Branch: OK
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC., OKR000000612, TULSA, OK, continued -

CEI Evaluation 01/19/1999 Activity Location: OK By: STATE Identifier: 000 Person: OKJDS Suborganization: Found Violation: YES
Citizen Complaint: YES Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 1
Former Citation - FR - 262.11(A)
Viol. Notes: INCORRECTLY NOTIFIED

Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 2
Former Citation - SR - 205-5-1
Viol. Notes: NO DISPOSAL PLAN

Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 3
Former Citation - FR - 262.34b

Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 4
Former Citation - FR - 262.11
Viol. Notes: HAZ WASTE DETERMINATION

Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 5
Former Citation - SR - 252:520-2-7
Viol. Notes: NON HAZ WASTE NOTIFICATION.

Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC., OKR000000612, TULSA, OK, continued -

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 6
Former Citation - FR - 262.23(a)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 7
Former Citation - FR - 262.34(c)(1)(i)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 8
Former Citation - FR - 262.34(c)(1)(ii)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 9
Former Citation - FR - 262.34(c)(2)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 10
Former Citation - FR - 262.34(a)(2)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 11
Former Citation - FR - 262.34(a)(3)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC., OKR000000612, TULSA, OK, continued -

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 12
Former Citation - FR - 262334(a)(1)(i)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 13
Former Citation - FR - 262.34(a)(1)(i)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 14
Former Citation - FR - 262.34(a)(1)(ii)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 15
Former Citation - FR - 262.34(a)(1)(1)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 16
Former Citation - FR - 262.34(a)(1)(i)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 17
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC., OKR000000612, TULSA, OK, continued -

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 18
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 19
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 20
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 21
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 22
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 23
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

This report may contain enforcement sensitive data.

LIMCO AIREPAIR, INC., OKR000000612, TULSA, OK, continued -

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 24
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 25
Former Citation - FR - 262.31(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 26
Former Citation - FR - 262.34(a)(4)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 27
Former Citation - FR - 262.23(a)(3)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: OK Type: 262.A Determined Date: 01/19/1999 Determined by Agency: STATE Responsible Agency: STATE
Scheduled Compliance Date: 05/29/1999 Actual Compliance Date: 07/06/1999 RTC Qualifier: OBSERVED Sequence Number: 28
Former Citation - FR - 268.7(a)(7)
Enforcement: Activity Location: OK Type: 120 Action Date: 04/08/1999 Identifier: 000
Docket: Agency: STATE Responsible Person: OKJDS Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Total Number of Handlers: 1
Total Number of Activity Locations: 1
*** End of Report ***

LIMCO Airepair, Inc.

RECEIVED
JAN 27 2014
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

January 14, 2014

Attn: Al Coulter
Oklahoma Department of Environmental Quality
Land Protection Division
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Amendment to Disposal Plan 728097

Dear Mr. Coulter:

Enclosed is a waste disposal plan application and laboratory analysis for adding an additional waste stream to disposal plan 728097. Please feel free to give me a call at (918) 445-4300.

Sincerely,

Bill Williams
Facility Manager

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 728097

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maintenance Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name Alkaline Waste

EPA-Waste Code(s) D002 D007 D010

Amount of Waste Produced
No. of Lbs. Frequency

Physical ☑ Liquid ☐ Sludge ☐ Solid ☐ Layered

100 ☐ Day ☐ Week ☑ Month ☐ Year

Chemical ☐ Ignitable (Flashpoint ___ °F) ☑ Corrosive (pH =>12.5) ☐ Reactive

☑ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

Turco 5668: used to clean air craft parts. This product (contains Potassium Hydroxide and Ethanolamine)

The cleaning of tanks periodically of old product and replacing with new product.

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089
Mailing address P.O. Box 729 City Benton State AR Zip 72018
Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 1-16-14
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

November 26, 2013

Bill Williams
LIMCO Airpair
5304 S Lawton Avenue
Tulsa, Oklahoma 74107
TEL: (918) 607-3665
FAX

RE: TURCO Sample Order No.: 1311184

Dear Bill Williams:

Green Country Testing, Inc. received 1 sample(s) on 11/14/2013 for the analyses presented in the following report.

In accordance with your instructions, Green Country Testing conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis were conducted using EPA approved methodologies. Test reports meet all the NELAC requirements. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Green Country Testing.

Certifications/Accreditation: OK - 7604 - AR - ADEQ - KS - E-10232 - LA - 4002

A scope of Certified/Accredited parameters is available upon request. If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Brian Duzan
Laboratory Director

Original

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Green Country TESTING

Case Narrative

WO#: **1311184**
Date: **11/26/2013**

CLIENT: LIMCO Airpair
Project: TURCO Sample

Analytical Comments for METHOD MET_WW_T , SAMPLE MB-2873, Batch ID R9608: *Na Icv = 92.92% for batch #2873.

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

Analytical Report

(wastewater)

WO#: **1311184**

Date Reported: **11/26/2013**

CLIENT: LIMCO Airpair
Project: TURCO Sample
Lab ID: 1311184-001
Client Sample ID TURCO 5668 Cleaning
Sample Location:

Collection Date: 11/12/2013 1:20:00 PM
Matrix: OTHER

Analyses	Result	RL	Qual	Units	DF	PL	Date Analyzed
TCLP METALS				**SW7470A**			Analyst: **KR**
MERCURY IN TCLP EXTRACT							
Mercury	0.00260	0.00250		mg/L	25	0.200	11/19/2013 6:22:49 PM
TCLP METALS				**SW6010B**			Analyst: **KR**
METALS IN TCLP EXTRACT							
Arsenic	0.822	0.200		mg/L	10	5.00	11/18/2013 7:25:23 PM
Barium	0.181	0.100		mg/L	10	100	11/18/2013 7:25:23 PM
Cadmium	< 0.100	0.100		mg/L	10	1.00	11/18/2013 7:25:23 PM
Chromium	256	1.00	*	mg/L	10	5.00	11/18/2013 7:25:23 PM
Lead	0.233	0.0500		mg/L	10	5.00	11/18/2013 7:25:23 PM
Selenium	2.76	0.200	*	mg/L	10	1.00	11/18/2013 7:25:23 PM
Silver	< 0.0200	0.0200		mg/L	10	5.00	11/18/2013 7:25:23 PM
CORROSIVITY BY PH				**SW9045D**			Analyst: **PAB**
Hydrogen Ion (pH)	13.3	0.100	H	pH Units	1		11/26/2013 1:00:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311184**
26-Nov-13

Client: LIMCO Airpair
Project: TURCO Sample **TestNo:** **SW6010B**

Sample ID	MB-2673	SampType:	MBLK	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/15/2013	RunNo:	9606
Client ID:	PBW	Batch ID:	R9606	TestNo:	SW8010B			Analysis Date:	11/18/2013	SeqNo:	122166

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 0.00500	0.00500									
Barium	< 0.0100	0.0100									
Cadmium	< 0.00100	0.00100									
Chromium	< 0.0100	0.0100									
Lead	< 0.00500	0.00500									
Selenium	< 0.00500	0.00500									
Silver	< 0.00200	0.00200									

Sample ID	LCS-2873	SampType:	LCS	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/15/2013	RunNo:	9608
Client ID:	LCSW	Batch ID:	R9608	TestNo:	SW8010B			Analysis Date:	11/18/2013	SeqNo:	122187

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.96	0.00500	2.000	0	98.0	85	115				
Barium	2.01	0.0100	2.000	0	100	85	115				
Cadmium	2.05	0.00100	2.000	0	103	85	115				
Chromium	2.06	0.0100	2.000	0	103	85	115				
Lead	2.10	0.00500	2.000	0	105	85	115				
Selenium	1.96	0.00500	2.000	0	97.8	85	115				
Silver	0.196	0.00200	0.2000	0	98.2	85	115				

Sample ID	1311186-001BMS	SampType:	MS	TestCode:	MET_WW_T	Units:	mg/L	Prep Date:	11/15/2013	RunNo:	9606
Client ID:	BatchQC	Batch ID:	R9808	TestNo:	SW8010B			Analysis Date:	11/18/2013	SeqNo:	122189

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.06	0.00500	2.000	0	103	89.3	112				

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311184**
26-Nov-13

Client: LIMCO Airpair
Project: TURCO Sample **TestNo:** **SW6010B**

Sample ID **1311188-001BMS** SampType: **MS** TestCode: **MET_WW_T** Units: **mg/L** Prep Date: **11/15/2013** RunNo: **9608**
Client ID: **BatchQC** Batch ID: **R9608** TestNo: **SW6010B** Analysis Date: **11/18/2013** SeqNo: **122189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	2.14	0.0100	2.000	0.03952	105	92	110				
Cadmium	2.10	0.00100	2.000	0	105	92.5	113				
Chromium	2.07	0.0100	2.000	0	104	89.8	111				
Lead	2.04	0.00500	2.000	0	102	90.5	107				
Selenium	2.00	0.00500	2.000	0.005614	99.5	90.2	110				
Silver	0.202	0.00200	0.2000	0	101	85.9	114				

Sample ID **1311188-001BMSD** SampType: **MSD** TestCode: **MET_WW_T** Units: **mg/L** Prep Date: **11/16/2013** RunNo: **9608**
Client ID: **BatchQC** Batch ID: **R9608** TestNo: **SW6010B** Analysis Date: **11/18/2013** SeqNo: **122190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	2.06	0.00500	2.000	0	103	89.3	112	2.055	0.389	4.08	
Barium	2.10	0.0100	2.000	0.03952	103	92	110	2.138	1.75	5.05	
Cadmium	2.11	0.00100	2.000	0	105	92.5	113	2.099	0.333	4.3	
Chromium	2.08	0.0100	2.000	0	104	89.6	111	2.072	0.481	4.3	
Lead	2.05	0.00500	2.000	0	102	90.5	107	2.041	0.294	4.19	
Selenium	2.01	0.00500	2.000	0.005614	100	90.2	110	1.995	0.899	4.34	
Silver	0.201	0.00200	0.2000	0	101	85.9	114	0.2018	0.298	5.23	

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
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TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311184**
26-Nov-13

Client: LIMCO Airpair
Project: TURCO Sample **TestNo:** **SW7470A**

Sample ID	MB-R9614	SampType:	MBLK	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/19/2013	RunNo:	9614
Client ID:	PBW	Batch ID:	R9614	TestNo:	SW7470A			Analysis Date:	11/19/2013	SeqNo:	122289

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.00010	0.00010									

Sample ID	LCS-R9614	SampType:	LCS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/19/2013	RunNo:	9614
Client ID:	LCSW	Batch ID:	R9614	TestNo:	SW7470A			Analysis Date:	11/19/2013	SeqNo:	122290

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000985	0.000100	0.001000	0	98.5	85	115				

Sample ID	1311194-001CMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/19/2013	RunNo:	9614
Client ID:	BatchQC	Batch ID:	R9614	TestNo:	SW7470A			Analysis Date:	11/19/2013	SeqNo:	122292

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00102	0.000100	0.001000	0	102	61.7	132				

Sample ID	1311194-001CMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/19/2013	RunNo:	9614
Client ID:	BatchQC	Batch ID:	R9614	TestNo:	SW7470A			Analysis Date:	11/19/2013	SeqNo:	122293

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000981	0.000100	0.001000	0	98.1	61.7	132	0.001024	4.32	4.36	

Sample ID	1311209-001AMS	SampType:	MS	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/19/2013	RunNo:	9614
Client ID:	BatchQC	Batch ID:	R9614	TestNo:	SW7470A			Analysis Date:	11/19/2013	SeqNo:	122297

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000953	0.000100	0.001000	0	95.3	61.7	132				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits		

Green Country Testing, Inc.
6825 E 38th Street
Tulsa, OK 74145
TEL: 918-828-9977 FAX: 918-828-7756
Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311184**

26-Nov-13

Client: LIMCO Airpair
Project: TURCO Sample

TestNo: **SW7470A**

Sample ID	1311209-001AMSD	SampType:	MSD	TestCode:	HG_WW	Units:	mg/L	Prep Date:	11/19/2013	RunNo:	9614
Client ID:	BatchQC	Batch ID:	R9614	TestNo:	SW7470A			Analysis Date:	11/19/2013	SeqNo:	122298

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000928	0.000100	0.001000	0	92.6	61.7	132	0.0009530	2.67	4.36	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit.
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
P	Second column confirmation exceeds	PL	Permit Limit	R	RPD outside accepted recovery limits
RL	Reporting Detectioo Limit	S	Spike Recovery outside accepted recovery limits		

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Website: www.greencountrytesting.com

QC SUMMARY REPORT

WO#: **1311184**

26-Nov-13

Client: LIMCO Airpair
Project: TURCO Sample **TestNo:** **SW9045D**

Sample ID	LCS-R9713	SampType:	LCS	TestCode:	CORROS	Units:	pH Units	Prep Date:		RunNo:	9713		
Client ID:	LCSS	Batch ID:	R9713	TestNo:	SW9045D			Analysis Date:	11/26/2013	SeqNo:	123389		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Hydrogen Ion (pH)	8.98	0.100	9.000	0	99.8	80	120						

Sample ID	1311184-001ADUP	SampType:	DUP	TestCode:	CORROS	Units:	pH Units	Prep Date:		RunNo:	9713		
Client ID:	TURCO 5668 Cleant	Batch ID:	R9713	TestNo:	SW9045D			Analysis Date:	11/26/2013	SeqNo:	123391		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Hydrogen Ion (pH)	13.4	0.100						13.33	0.225	1.4	H		

Qualifiers:

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M	Manual Integration used to determine area response	N	Non-NELAC Accredited Parameter	ND	Not Detected at the Reporting Limit
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INSTRUCTIONS

The Disposal Plan is designed for RCRA hazardous waste generators and RCRA regulated materials. Small Quantity Generators and Conditionally Exempt Small Quantity Generators are exempt from the disposal plan requirements (see OAC 252:205-5-3). One disposal plan application should be completed for each waste generated at each plant which is the origination point of hazardous wastes. Approved Disposal Plans will be listed on the Land Protection Division's Web Page: http://www.deq.state.ok.us/LPDnew/DisposalPlan2/DisposalRequest.html

IDENTIFICATION OF WASTE GENERATOR

Generator's EPA ID number for the plant location is required. The disposal plan application will not be processed without this number. Please indicate if the application is for a new plan or an amendment.

Enter business/plant name, address, telephone number, etc., as indicated. If the plant address is identical to the business mailing address, enter "Same". Enter the name and title of the person in charge of the plant or plant contact. The person in charge or plant contact should verify all information submitted and sign and date the disposal plan. **A consultant's or preparer's signature will not be accepted in lieu of generator's signature.**

DETAILED WASTE DESCRIPTION

Enter waste name not the DOT description. This name will be used on the generator's listing to identify the waste stream. Enter all EPA waste codes from 40 CFR 261 SubParts C and/or D applicable to this particular waste stream. Indicate physical and chemical characteristics of this waste. Attach laboratory analysis for this waste stream. For necessary tests see 40 CFR 261, Appendices I through X. Material Safety Data Sheets (MSDS) may be used for off-specification products only.

PROCESS GENERATING WASTE

Provide detailed description of process generating waste. Description must be sufficient to properly characterize the waste and must account for each EPA waste code claimed.

TREATMENT, STORAGE, AND/OR DISPOSAL (TSD) FACILITY INFORMATION

Enter name and telephone number of site receiving waste. Give complete mailing address of TSD facility. Enter site location. Enter facility's EPA ID number. These will be checked against an EPA database to determine the facility's ability to accept this waste. If more than one TSD facility needs to be listed, use the continuation page. http://www.deq.state.ok.us/lpdnew/forms/Haz%20Waste/DPPLANCONTINUATION.pdf

AMENDMENTS TO PREVIOUSLY APPROVED WASTE STREAMS

Reference EPA identification and waste stream numbers in the top portion of the form. Indicate required amendments in the appropriate section(s).

FEES TO BE REMITTED WITH DISPOSAL PLAN APPLICATION (PURCHASE ORDERS ACCEPTABLE - COPY OF PURCHASE ORDER MUST BE SUBMITTED WITH APPLICATION).

Fees for disposal plans are:

Oklahoma Generators		**Out-of-State Generators**	
Processing fee (includes 2 waste streams)	$100.00	Processing fee (includes 2 waste streams)	$100.00
Monitoring and Inspection fee	100.00	Monitoring and Inspection fee	-0-
Each waste stream over two	50.00	Each waste stream over two	50.00

The generator is charged an annual generator fee on the same basis as the above listed fees.
Make checks and purchase orders payable to the Oklahoma Department of Environmental Quality.

AMENDMENTS

When adding waste streams to an existing plan, submit a $50.00 fee for each waste stream. There is no charge for adding or deleting information on waste streams.

ONE-TIME DISPOSAL FEES

If the generator has an existing disposal plan, the fee for a one-time disposal is $50.00 per waste stream. If there is no existing plan, the fee for Oklahoma and out-of-state generators is $100.00 for the first two waste streams and $50.00 for each additional waste stream.

Attach generator fees, if required, and mail to

Disposal Plans
Financial and Human Resources Management
Oklahoma Department of Environmental Quality
P. O. Box 2036
Oklahoma City, Oklahoma 73101

The physical location of the office is 707 North Robinson in

Limco Airepair, Inc.
5304 S. LAWTON AVE.
TULSA, OKLAHOMA 74107
(918) 445-4300 • (918) 446-8704

UMB BANK, NA
KANSAS CITY, MISSOURI
18-69/1010

039299

DATE	AMOUNT
Jan-21-2014	**$50.00**

Fifty 00/100

PAY TO THE ORDER OF
OKLAHOMA DEPARTMENT OF ENVIROMENTAL QUALITY
P.O. BOX 2036
OKLAHOMA CITY, OK 73101

AUTHORIZED SIGNATURE

Disposal Plan 728097

⑈039299⑈ ⑆103000619⑆ 98?18538 29⑈

039299

LIMCO AIREPAIR, INC.

Your Invoice/Ref Number	Our Ref	Our P.O. No.	Date	Invoice Amount	Discount	Net Amount
DISPOSAL PL# 728097	076067		Jan-21-2014	$ 50.00	$ 0.00	$ 50.00

Date Jan-21-2014
No 039299

Note
Paid To: [OKDEENQU] OKLAHOMA DEPARTMENT OF ENVIROMENTAL QUALITY

$ 50.00

DEQ QUARTERLY REPORT FORM

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2014

For the quarter ending in (check one below):

X March ___June ___September ___December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount In Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	561	H061
15251	ARR000016733	ARD981057870	7284	H061
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5909	H141
		Total Amount this page:	13754	

LAC
8/8/14

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: [signature] **Date:** 4-9-14

Typed Name of Authorized Agent: Bill Williams **Title:** Director of Facilities, Maintenance and EHS

LIMCO Airepair, Inc.

RECEIVED
APR 11 2014
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

April 7, 2014

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT

7013 1710 0001 4372 7840

LPD - Traci Kelly

RECEIVED

Postage	$ 1.52
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

DEC 19 2013

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEC 18 2013 Postmark Here

BILL WILLIAMS
LIMCO AIREPAIR, INC. (OKR000000612)
5304 S. LAWTON
TULSA, OK 74107

PS Form 3800, August 2006 See Reverse for Instructions

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A record of delivery kept by the Postal Service for two years

Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail® or Priority Mail®
- Certified Mail is *not* available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

BILL WILLIAMS
LIMCO AIREPAIR, INC. (OKR000000612)
5304 S. LAWTON
TULSA, OK 74107

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☒ Agent ☐ Addressee

B. Received by (Printed Name) Deborah Mitchell
C. Date of Delivery 12/20/13

D. Is delivery address different from item 1? ☐ Yes
if YES, enter delivery address below: ☐ No

RECEIVED
DEC 23 2013
DIVISION OF ENVIRONMENTAL QUALITY

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7013 1710 0001 4372 7840

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

Alicia Chen
DEQ Land Protection Division
707 N. Robinson Ave.
P.O. Box 1677
Oklahoma City, OK 73101-1677

LIMCO Airepair, Inc.

RECEIVED
FEB 13 2014
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

February 10, 2014

Alicia Chen
Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Sir or Madam:

Enclosed is our Site Identification form and Declaration of Filing for the 2013 Biennial Report. If you have any questions regarding this report, please call Greg Steele at (918) 605-0320.

Sincerely,

Bill Williams
Facility Manager

DECLARATION OF ELECTRONIC FILING OF THE 2013 ANNUAL HAZARDOUS WASTE REPORT

For the calendar year January 1, 2013, through December 31, 2013

EPA ID: OKR000000612

Site/Company Name: LIMCO AIREPAIR, INC.

Site Address: 5304 S. LAWTON

City: TULSA State: OK Zip: 74107

Mailing Address: 5304 S. LAWTON

City: TULSA State: OK Zip: 74107

Contact Name: BILL WILLIAMS Phone No: 9184454300 Ext:

Contact Title: DIRECTOR OF FACILITIES

Part I - Declaration of Filer

I certify under penalty of law that the information shown on my 2013 Hazardous Waste Report, which I filed electronically, and that this document and all attachments were prepared under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted, is correct and current. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for known violations.

Part II- Signature of Certification

Last Name: WILLIAMS First Name: BILL Title: DIRECTOR OF FACILITIES

Signature: Date: 02/07/2014

Part III - Method of File Transmittal

____CD

__X__ARM Web Site

** Note: This is not the 2013 Annual Hazardous Waste Report. Only file this form if you submitted your 2013 Annual Hazardous Waste Report electronically. This form alone does not constitute submittal of the 2013 Hazardous Waste Report but is required for all methods of electronic submission of the report.

Submit Date: 02/10/2014

SEND COMPLETED FORM TO: The Appropriate State or EPA Regional Office	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM (2013)**
1. Reason for Submittal MARK ALL BOX(ES) THAT APPLY	**Reason for Submittal:** ☐ To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location) ☐ To provide Subsequent Notification of Regulated Waste Activity (to update site identification information). ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application. ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____). ☒ As a component of the Hazardous Waste Report. (If marked, see sub-bullet below) ☒ Site was a TSD facility and/or generator of >1,000 kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)
2. Site EPA ID Number	**EPA ID Number:** OKR000000612
3. Site Name	**Name:** LIMCO AIREPAIR, INC.
4. Site Location Information	**Street Adress:** 5304 S. LAWTON **City, Town, or Village:** TULSA **County:** OK143 **State:** OK **Country** US **Zip Code:** 74107
5. Site Land Type	☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other
6. NAICS Code(s) for the Site	**A.** 333415 **B.** **C.** **D.**
7. Site Mailing Address	**Street or P. O. Box:** 5304 S. LAWTON **City, Town, or Village:** TULSA **State:** OK **Country:** US **Zip Code:** 74107
8. Site Contact Person	**First Name:** BILL **MI:** **Last Name:** WILLIAMS **Title:** DIRECTOR OF FACILITIES **Street or P. O. Box:** 5304 S. LAWTON **City, Town, or Village:** TULSA **State:** OK **Country:** US **Zip Code:** 74107 **Email :** billw@limcoairepair.com **Phone:** 9184454300 **Ext:** **Fax:**
9. Operator and Legal Owner of the Site	**A. Name of Site's Owner:** LIMCO AIREPAIR, INC. **Date Became Owner:** 10/01/1995 **Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other **Street or P. O. Box:** 5304 S. LAWTON **City, Town, or Village:** TULSA **Phone** 9184454300 **State:** OK **Country:** US **Zip Code:** 74107
	B. Name of Site's Operator: LIMCO AIREPAIR, INC. **Date Became Operator:** 10/01/1995 **Type:** ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

10. Type of Regulated Waste Activity
Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities; Complete all parts 1-7.

Y☒ N☐ **1. Generator of Hazardous Waste**
If Yes, choose only one of the following - a, b, or c.

- ☒ a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs./mo.) or more of hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs./mo) of acute hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lbs./mo) of acute hazardous spill cleanup
- ☐ b. SQG:. 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or
- ☐ c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

If "Yes" above, indicate other generator activities.

Y☐ N☒ 2 Short-Term Generator (generate from a short-term or onetime event and not from on-going processes). If "Yes", provide an explanation in the Comments

Y☐ N☒ 3. United States Importer of Hazardous Waste

Y☐ N☒ 4. Mixed Waste (hazardous and radioactive) Generator

Y☐ N☒ **5. Transporter of Hazardous Waste**
If Yes, mark all that apply.

- ☐ a. Transporter
- ☐ b. Transfer Facility (at your site)

Y☐ N☒ **6. Treater, Storer, or Disposer of Hazardous Waste (at your site)**
Note: A hazardous waste permit is required for this activity.

Y☐ N☒ **7. Recycler of Hazardous Waste (at your site)**

Y☐ N☒ **8. Exempt Boiler and/or Industrial Furnace**
If Yes, mark each that applies.

- ☐ a. Small Quantity On-site Burner Exemption
- ☐ b. Smelting, Melting, and Refining Furnace Exemption

Y☐ N☒ **9. Underground Injection Control**

Y☐ N☒ **10. Receives Hazardous Waste from Off-site**

B. Universal Waste Activities; Complete all parts 1-2.

Y☐ N☒ **1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site.**
If "Yes", mark all boxes that apply:

- a. Batteries ☐
- b. Pesticides ☐
- c. Mercury containing equipment ☐
- d. Lamps ☐
- e. Other (specify) _____ ☐
- f. Other (specify) _____ ☐
- g. Other (specify) _____ ☐

Y☐ N☒ **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this

C. Used Oil Activities; Complete all parts 1-4.

Y☐ N☒ **1. Used Oil Transporter**
If Yes, mark each that applies.

- ☐ a. Transporter
- ☐ b. Transfer Facility

Y☐ N☒ **2. Used Oil Processor and/or Re-refiner**
If Yes, mark each that applies.

- ☐ a. Processor
- ☐ b. Re-refiner

Y☐ N☒ **3. Off-Specification Used Oil Burner**

Y☐ N☒ **4. Used Oil Fuel Marketer**
If Yes, mark each that applies.

- ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
- ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

D. **Eligible Academic Entities with Laboratories-Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K**

You must check with your State to determine if you are eligible to manage laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K

☐ 1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories
See the item-by-item instructions for definitions of types of eligible academic entities. Mark all that apply:

- ☐ a. College or University
- ☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university
- ☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

☐ 2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

11. Description of Hazardous Wastes

A. Waste Codes for Federally Regulated Hazardous Wastes.

Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D001, D002, D003, D006, D007, D010, D035, D040, F001, F003, F005

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes.

Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

EPA ID Number: OKR000000612

12. Notification of Hazardous Secondary Material (HSM) Activity

Y☐ N☒ Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?

If "Yes", you must fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.

13. Comments

14. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Operator, Owner, or an Authorized Representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	BILL WILLIAMS, DIRECTOR OF FACILITIES	02/07/2014

LIMCO Airepair, Inc.

RECEIVED
JUL 14 2014
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

July 10, 2014

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

219287 CD___ #c_1_ c/o TK

RCRA Disposal Plans

DEQ QUARTERLY REPORT FORM

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2014

For the quarter ending in (check one below):

March X June ___September ___December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount In Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	459	H061
15251	ARR000016733	ARD981057870	6885	H061
18474	ARR000016733	ARD981057870	83	H141
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	0	
		Total Amount this page:	7427	

VAL

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams

Date: 7-3-14

Typed Name of Authorized Agent: Bill Williams

Title: Director of Facilities, Maintenance and EHS

DEQ QUARTERLY REPORT FORM

RECEIVED

OCT 10 2014

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2014

For the quarter ending in (check one below):

March June X September ___December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
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15189	ARR000016733	ARD981057870	918	H061
15251	ARR000016733	ARD981057870	6885	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5508	H141
		Total Amount this page:	13311	

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

VAC

Signature of Authorized Agent: Bill Williams

Date: 10-8-14

Typed Name of Authorized Agent: Bill Williams Director of Facilities, Maintenance and EHS

220552 CD___ #c1 c/o TK

RCRA Disposal Plans

LIMCO Airepair, Inc.

October 8, 2014

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

LIMCO Airepair, Inc.

RECEIVED
JAN 15 2015
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

January 8, 2015

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

221705 CD___ #c_1_ c/o TK

RCRA Disposal Plans

DEQ QUARTERLY REPORT FORM

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2014

For the quarter ending in (check one below):

March June September X December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Physical Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	**Transporter EPA ID No.**	**Treatment, Storage, Disposal, Recycling Facility EPA ID No.**	**Amount in Pounds**	**Handling Codes and Comments**
15189	ARR000016733	ARD981057870	459	H061
15251	ARR000016733	ARD981057870	5967	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5508	H141
		Total Amount this page:	11934	

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams **Date:** 1-9-15

Typed Name of Authorized Agent: Bill Williams **Title:** Director of Facilities, Maintenance and EHS

APPLICATION/PERMIT ISSUANCE EVENT TRACKING
AIR QUALITY DIVISION

FAC 3620

RECEIVED
APR 23 1999
DEPT. OF ENVIRONMENTAL QUALITY
REGIONAL OFFICE AT TULSA

Company Name: LINCO - AIRGPAIR

Facility Name: TULSA

City: TULSA (Nearest) County: TULSA

Permit Number: 99-026-O Engineer: FLY / NEUMANN (TRANSFERRED 5/24/99)

Steps					Date	Initials
Fee Received Amount: $750 Receipt No. 1271 ROAT					4/23/99	
Facility Type / RDI: P7 / 20 Title V ____ Synthetic-minor ____ Non Title V X **Application Type:** ____ Applicability Determination ____ X Construction ____ Operation ____ Title V ____ GOP ____ Modification ____ Relocation ____ Temporary ____ PBR					4/27/99	JF
Confidential Information Included: X No ____ Yes (Requires a separate file)					4/27/99	JF
Tier Classification: (I) II III N/A					?	?
Tracking Log Entry and Distributed to Engineer					4/27/99	IH
Administrative Review (Start date is the date application received by AQD)						
• Fee Assessment: Total Due 750 Total Received 750					4/27/99	JF
• Landowner Affidavit Received					4/27/99	JF
• Filing Notice Received (Only Tier II & III)						
• EPA Transmittal Form Received (Only Title V)						
• Notice of Deficiency		By Letter		By Phone		
• Response						
• Completeness Letter					6/9/99	JF
Technical Review (Start date)						
• Notice of Deficiency	X	By Letter		By Phone	6/9/99	JF
• Pending Facility Action (PFA)		By Letter		By Phone		
• Response					8/6/99	JF
• Notice of Deficiency 2 / PFA 2		By Letter	X	By Phone	9/16/99	HN
• Response 2					12/3/99	HN
Draft Permit Prepared by Engineer					12/7/99	HN
Enforcement Review / Coordination ROAT 12/14/99 AKJ		Legal		Waste Management		
Technical Review – Supervisor - 1-11-00 (DR)		Existing Source	X	New Source	1-10-00	RK
Draft Permit Prepared / Letter Typing						
Final Approval by Permit Chief Engineer					1-18-00	DFL
Draft Permit Public Notice (Only Tier II & III) Approval by Director AQD					NA	NA
• Distribution to: ____ Affected State, ____ EPA, ____ Applicant						
• Draft Permit Notice Received						
• Public Comment Period Starts						
• Public Meeting Held						
Proposed Permit Public Notice (Only Tier III) Approval by Director AQD						
• Distribution to: ____ Affected State, ____ EPA, ____ Applicant						
• Proposed Permit Notice Received						
• Public Comment Period Starts						
• Response to Comments Mailed						
Final Approval by Director AQD						
Final Approval by Executive Director DEQ (Only Tier III)						
Final Processing						
• Distribution to: ____ Applicant, ____ ECLS Office, ____ EPA, ____ Internal					1-14-00	CW
• Entered in Permit Archive					1/26/00	HN
• File Created in File Room						

Initial and Date each Step when it is complete or mark N/A. **Keep this Tracking Form with Permit through all Steps.**

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

JAN 14 2000

Bob Johnson, Controller
LIMCO-Airepair, Inc.
5304 S. Lawton Avenue
Tulsa, OK 74107

Re: LIMCO-Airepair Operating Permit No. 99-026-O

Dear Mr. Johnson:

Enclosed is the permit authorizing operation of the referenced facility. Please note that this permit is issued subject to certain standard and specific conditions that are attached.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 461-7400. Air Quality personnel are located in the DEQ Regional Office at Tulsa, 5051 S. 129 E. Avenue, and our mailing address is P.O. Box 690898, Tulsa, OK, 74169-0898.

Sincerely,

Herb Neumann
AIR QUALITY DIVISION

xc: SherWill Environmental, Health & Safety
10388 E. 21 Street
Tulsa, OK 74129

Encl.

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Date JAN 14 2000 Permit No. 99-026-O

Limco Airepair,

having complied with the requirements of the law, is hereby granted permission to operate a facility to manufacture and repair aircraft parts at 5304 S. Lawton Avenue, Tulsa, Tulsa County, Oklahoma,

subject to the following conditions, attached:

[X] Standard Conditions

[ ] Standard Conditions for EPA New Source Performance Standards

[X] Specific Conditions

Chief Engineer, Air Quality Division

DEQ Form 885
Revised 7/93

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
STANDARD CONDITIONS

1. This is a permit to operate in accordance with and under the authority of the Oklahoma Clean Air Act and the rules promulgated thereunder. It is subject to periodic review and change as deemed necessary to fulfill the intent and purposes of the Act and rules. It does not relieve the holder of the obligation to comply with other applicable federal, state, or local statutes, regulations, rules, or ordinances.

2. If any statement or representation in the application is found to be incorrect, this permit may be revoked and the permittee thereupon waives all rights thereunder; however, the application may be amended and a supplemental written permit issued.

3. Any modification of operating procedures from those for which this permit was issued which results in an increase in emission of air contaminants without notification of Air Quality shall be grounds for revocation of this permit.

4. Any agent of the Oklahoma Department of Environmental Quality shall have the right and authority to inspect, at reasonable times, the operation of the equipment for which this permit is issued.

5. This permit shall not be considered in any manner affecting the title of the premises upon which the equipment is located and does not release the permittee from any liability for damage to persons or property caused by or resulting from the maintenance or operation of the equipment for which this permit is issued.

6. In compliance with the Excess Emission and Malfunction Reporting Requirements of OAC 252:100-9, the permittee shall notify Air Quality, phone (405) 702-4100, of the occurrence as soon as practical during normal office hours and no later than the next working day. Further notice shall be tendered in writing within ten (10) business days.

7. This permit is valid for operations only at the specific location listed. Operation of minor sources at another location within Oklahoma requires a Relocation Permit from Air Quality. Major sources are not eligible for Relocation Permits.

8. Notification of the sale or transfer of ownership of this facility shall be postmarked within 10 days after such date.

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

LIMCO Airepair **Permit No. 99-026-O**
Aircraft Subassembly Manufacturing and Repair

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on April 23, 1999, with supplemental information received June 10, July 29, and December 3, 1999. The Evaluation Memorandum dated January 11, 2000, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein.

1. Points of emission include the drying ovens, cleaning, degreasing and coating areas. Emissions from all sources are below *de minimis* and only the vapor degreaser requires permit conditions.

2. No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR §63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

a) The unit door shall operate easily and without disturbing the vapor zone.

b) The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

c) The unit shall have one or more of certain control devices or techniques, including a freeboard ratio not less than 0.75, a chiller, enclosed design, carbon adsorption, or any system whose efficiency is at least equal to any of the first four listed.

d) A conspicuous label summarizing the operating procedures shall be permanently attached to the unit. At a minimum, this label shall include all of the provisions described in OAC 252:100-39-42(b)(2).

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

a) Records sufficient to demonstrate that the facility continues in *de minimis* status, exclusive of the vapor degreaser.

b) Degreaser records required by Specific Condition #3.

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **January 11, 2000**

TO: Dawson Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: Dave Dimick, P.E., Supervisor, Existing Source Permits Unit
Richard Kienlen, P.E., Interim Supervisor, New Source Permits Unit

THROUGH: Peer Review

FROM: Herb Neumann
DEQ Regional Office at Tulsa

SUBJECT: Evaluation of Permit Application No. **99-026-O**
Limco-Airepair, Inc.
Aerospace Component Manufacture and Repair
5304 S. Lawton Avenue, Tulsa, Tulsa County

The applicant has requested an applicability determination, or a permit if needed, for this existing facility. The facility manufactures and repairs heat exchanger and oil cooler components for the aerospace industry (SIC 3728). The facility commenced operations in 1995 and has never been permitted.

PROCESS DESCRIPTION

There are three process lines at this facility.
The Aero Duct process handles plenum ducts. They are processed through a clean line, go through an allodine process, and are painted. Allodine is a process to plate aluminum parts, involving a nitric/chromic acid bath. It is not heated and does not use electric current. The clean line involves various acids and caustics, none of which is emitted in significant amounts. A tabulation of paint, primers and solvents is found in the Emission Calculations section below.

The repair process handles heat exchangers and oil coolers. Repairs are made by welding as appropriate and the units are pressure tested for leaks using coolants, oils, mineral spirits and isopropyl alcohol. Parts are run through the clean line as above and then dried in an oven to remove any residual moisture. Less than 5% of all parts are painted, some are allodined, and some are shipped out for aluminum coating.

The manufacturing process builds heat exchangers and oil coolers. Sheet stainless steel is cut to form fins that are cleaned with MEK and then run through the degreaser. The degreaser uses trichloroethylene, a state-listed Category A toxic air contaminant and federally-listed hazardous air pollutant. These fins are then welded and shaped into heat exchangers and oil coolers. The units are then pressure tested as above and all subsequent steps are duplicated as indicated in the repair process already discussed.

The paint booth is 12′ × 12′ × 8′ high and uses one HVLP gun with an estimated transfer efficiency of 50%. Some process heat is provided by electricity, but there are three natural gas-fired ovens. The ovens are rated at 0.175, 0.3, and 0.3 MMBTUH, for a total of 0.775 MMBTUH. The vapor degreaser holds 110 gallons of trichloroethylene and has a solvent/air interface of 1,268.5 in^2. The only control device is a 95% efficient exhaust filter on the paint booth. The facility operates 16 hours per day, six days per week, and 52 weeks per year, or 4,992 hours per year.

EMISSION CALCULATIONS

Total rated heat input capacity of all three ovens is 0.775 MMBTUH. Actual fuel consumption for 1998 was 1,036 MMBTU. Maximum possible for continuous operation (8,760 hours) would be 6,789 MMBTU, while the amount consumed in 4,992 listed hours of operation would be 3,869 MMBTU. Combustion emissions are calculated here on a worst-case continuous operations basis, using AP-42 (3/98) Tables 1.4-1 & 2 and assuming 1,000 BTU/CF.

	Factor	Emissions	
Pollutant	lb/MMCF	lb/hr	TPY
NO_x	100	0.08	0.34
CO	84	0.07	0.29
PM_{10}	7.6	0.01	0.03
SO_2	0.6	<.01	<.01
VOC	5.5	<.01	0.02

Purchases of acids and caustics used in the clean lines have been tabulated in the application. Most of the replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Purchases of trichloroethylene for the degreaser amounted to 3.57 tons for 1998. No material was disposed, so emissions are assumed to be equal to purchases. The facility has replaced the cover on this unit and has removed the lip exhaust. Addition of these measures should decrease future emissions to approximately 0.5 TPY.

Materials used in cleaning and wipedown of the parts include 1.88 TPY of MEK, 0.29 TPY of isopropyl alcohol and 0.02 TPY of toluene. Pressure testing uses 0.75 TPY of mineral spirits. The facility used 95 gallons of ten different primers, topcoats and solvents in 1998. A "supercoat" was created by assuming the worst polluting characteristic of each coating. Using this supercoat to represent all coating performed at the facility yields 0.31 TPY of VOC, with a maximum toxic solvent emission of 0.08 TPY of MEK. Assuming transfer and filter efficiencies of zero, a total of 0.36 TPY of particulates are emitted, with a maximum toxic particulate emission of 0.15 TPY of polymeric HDI.

The following table totals all facility VOC emissions, both as stated for 1998 and as inflated for growth. Combustion emissions were calculated at 8,760 hours, so they are already maximized. Degreaser emissions were assumed to double, based on the lack of historical data following the modifications. Cleaning, testing, and coating usage data were multiplied by 150%.

Source	1998 (TPY)	Projected (TPY)
Combustion	0.02	0.02
Degreaser	0.50	1.00
Cleaning	2.19	3.29
Pressure testing	0.75	1.12
Surface coating	0.31	0.47
Totals	2.77	5.90

FEDERAL REGULATIONS

PSD, 40 CFR Part 52 [Not Applicable]
The facility is not a major source and final total emissions are less than even the threshold of 100 TPY for 26 specific industries.

NSPS, 40 CFR Part 60 [Not Applicable]
The facility is not subject to any of the NSPS Subparts.

NESHAP, 40 CFR Part 61 [Not Applicable]
There are no emissions of any of the pollutants subject to 40 CFR 61 (asbestos, benzene, beryllium, coke oven emissions, inorganic arsenic, mercury, radionuclides, and vinyl chloride).

NESHAP, 40 CFR Part 63 [T Applicable]
Subpart T (Halogenated Solvent Cleaners). This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. Applicant is subject to Subpart T, has complied with the initial notification procedure, and has done all required reporting. Applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. Applicant is in compliance.
Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this Subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-5 (Registration of Air Contaminant Sources) [Applicable]
Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants. The applicant shall comply with these requirements after the permit is issued.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
Permits are not required for those facilities that emit less than 5 TPY of any regulated pollutant, have no emissions in excess of toxic category *de minimis* thresholds, and are not subject to federal regulations, such as NSPS or NESHAP. The degreaser was installed in 1995, is subject to 40 CFR 63 Subpart T, and thus the facility requires a minor source operating permit. As such, major source BACT consideration, modeling, and public review are not required.

OAC 252:100-8 (Permits for Part 70 Sources) [Not Applicable]
In addition to the permitting criteria under Subchapter 7, a source may require permitting under this Subchapter if it has emissions of HAPs in excess of 10 TPY for any one HAP or in excess of 25 TPY for any combination of HAPs. Although the facility does emit some HAPs, emissions do not exceed either threshold, and it is not subject to this rule.

OAC 252:100-19 (Particulate Matter Emissions from Fuel-burning Equipment) [Applicable]
All of the curing ovens are gas-fired and have very low heat inputs. AP-42 factors imply compliance with the standards of this Subchapter.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences that consist of not more than one six-minute period in any 60 consecutive minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60 % opacity.

OAC 252:100-29 (Fugitive Dust) [Applicable]
Processes likely to generate dust that might become an atmospheric pollutant must take reasonable measures to minimize such pollution. No visible emissions which harm or interfere with the rights of others may pass the property line of the originator of such emissions. There are no processes that generate fugitive dust and the facility is in compliance.

OAC 252:100-31 (Sulfur Oxides) [Applicable]
All combustion equipment is fired by commercial grade natural gas and satisfies the requirements of this Subchapter.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
The new equipment standard applies to fuel-burning equipment with a rated heat input of 50 MMBTUH or more. The facility has no such equipment.

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
This facility has none of the affected sources: foundry cupola, blast furnace, basic oxygen furnace, catalytic cracking unit, or other petroleum or natural gas process except stationary engines.

OAC 252:100-37 (Volatile Organic Compounds) [Applicable]
Solvent emissions from preparation, painting and cleanup are below the thresholds requiring extensive record keeping and limits on VOC content per gallon. Fuel-burning equipment shall be in compliance with the requirements of Section 37-36. The curing ovens shall be properly maintained and operated to provide essentially complete combustion.

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas) [Applicable]
This Subchapter imposes additional conditions beyond those of Subchapter 37 on emissions of organic materials from new and existing facilities in Tulsa County.
Section 42 concerns metal cleaning. Subsection 42 (b) covers vapor type metal degreasers, with standards for construction and operation of such equipment. Paragraph 1 outlines equipment standards including: doors and covers in Subparagraph A; safety switches in Subparagraph B; equipment specifications such as freeboard, chillers, etc., in Subparagraph C; and, conspicuous labeling of the equipment in Subparagraph D. Paragraph 2 describes the labeling information required to comply with Subparagraph 1(D). Paragraph 3 lists compliance and recordkeeping criteria.
Section 46 concerns coating of parts and products. The facility engages in coating of aerospace components and is exempt from this Section.
Section 47 concerns aerospace industries coatings operations. The facility is exempt from this Section per §47(a)(3) because it emits less than 10 TPY of VOC.

OAC 252:100-41 (Hazardous and Toxic Air Contaminants) [Not Applicable - **State Only**]
Part 3 addresses hazardous air contaminants. NESHAPs, as found in 40 CFR 61 and 63, are adopted by reference as they exist on July 1, 1998, with certain exceptions. As noted above, this facility is not an affected source.
Part 5 is a state-only requirement governing toxic air contaminants. Sources are required to demonstrate that emissions of any toxic air contaminant that exceed *de minimis* level do not cause or contribute to a violation of the MAAC. As noted above, there are no emissions of toxics that exceed their respective *de minimis* thresholds.

INSPECTION

DEQ permit writer Herb Neumann inspected the facility on September 16, 1999. The degreaser is operated infrequently, and was not in use at the time of this inspection. Certain recordkeeping requirements had not been met and a discussion as to how to meet these requirements ensued. All records and appropriate labeling of the degreaser were in place as of December 3, 1999.

TIER CLASSIFICATION AND PUBLIC REVIEW

This application has been classified as Tier I based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

FEES PAID

Construction and operating permit fees of $750 (pre-June, 1999 application date).

SUMMARY

The applicant has demonstrated compliance with the applicable air quality rules and regulations. Ambient air quality standards are not threatened at this site. There are no active Compliance or Enforcement Air Quality issues concerning this facility. Issuance of the permit is recommended.

FAC 3620
99-026-0

LIMCO Airepair, Inc. & Aeroduct

July 29, 1999

Mr. Jack Fly
Oklahoma Department of Environmental Quality, Tulsa Regional Offiee
5051 S. 129th E. Ave.
Tulsa, Ok 74134

Re: Applicability Determination Request; Addendum to Construction/Operating Permit Applieation Submitted on April 23, 1999

This letter is an addendum to our Construction/Operating Air Permit Applieation. We have made ehanges to the vapor degreaser operations that have lowered the air emissions by 0.5 TPY. We have diseonnected the lip exhaust from the unit, therefore eliminating a draft across the tank. The reduction in vapor emissions will lower the overall VOC's at our faeility to 3.67 tons/year. Since this would be less than 5 tons/year of VOC's faeility wide, we would not be required to have an Air Permit.

OPTION 1

However, by December 9, 2000, we will be required to apply for a Title V Permit for the Vapor Degreaser operations, according to the Federal guidelines. We understand these guidelines are under review and ehanges may be coming out in the near future.

If you have any questions or need additional information, please do not hesitate to eall me at 445 – 4300.

Sincerely,

Danny Michaels – Risk Manager

Cc: Marcy Klass-Jones; Sherwill Environmental, Health and Safety Consultants

Summary data

PRODUCT	MANUFACTURER	1998 GALLONS	VOC	EMISSIONS	Solids		Formal-	Isopropyl	n-Butyl	Methyl
		Weight			Weight		dehyde	Alcohol	Alcohol	Ethyl
		ppg	ppg		ppg	pounds				Ketone
CAS Number							50-00-0	67-63-0	71-36-3	78-93-3
Category							A	C	C	C
MAAC (micrograms/cubic meter)							12	98,339	15,161	59,000
	VOC? Y=1, N=0						1	1	1	1
	HAP? Y=1, N=0						1	0	0	1
Paints		93	6.59	6.59	612.87	7.75	720.75	0.61	122.57	61.29	153.22
Thinner		2	7.43	7.43	14.86	0	0	0.00	0.00	0.00	4.46
					628		721	1	123	61	158
	VOS totals			Grand	1445			1	123	61	158
	HAP totals			Grand	558			0	0	158

0.02

Xylene	Carbon	Chrome VI	Zinc dust	Silica,	Stoddard	Titanium	Calcium	Silica,	Talc	Silica	Bisphenol A	Dimethylamin	Hexamethylen
	black	compounds		amorphous	solvent	dioxide	chromate	crystalline		(quartz)	diglycidyl	methyl	Diisocyanate
		as Cr	(PM10)	hydrated		(PM)	as Cr	(cristobalite)		(PM-10)	ether polymer	phenol	(HDI) polyme
1330-20-7	1333-86-4	7440-47-3	7440-66-6	7631-86-9	8052-41-3	13463-67-7	13765-19-0	14464-46-1	14807-96-6	14808-60-7	25068-38-6	25338-55-0	28182-81-2
C	A	A	C	amorphous	C	C	A	A	C	A	C	A	C
43,427	35	0.25	500	0.5	35,000	NE	0	0.5	200	1	NE	NE	NE
1	0	0	0	0	1	0	0	0	0	0	0	1	0
1	0	1	0	0	0	0	1	0	0	0	0	0	0
153.22	80.29	12.26	67.42	42.72	0.43	153.22	15.32	61.29	45.97	91.93	268.13	30.64	306.44
0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	80	12	67	43	0	153	15	61	46	92	268	31	306
154	0	0	0	0	0	0	0	0	0	0	0	31	0
154	0	12	0	0	0	0	15	0	0	0	0	0	0

PM 0.31 PM 0.38

1,2,4-Trimethy	Ethyl	Benzyl	PGME	Methyl	PGME	Toluene	Cyclohexanon	Methyl	Butyl	Diethylene	2,4-Pentane-	Butyl Acetate	Ethyl
Benzene	Benzene	alcohol	(Methoxy-	iso-butyl	Acetate			Amyl	Cellosolve	glycol methyl	dione		Acetate
			propanol)	Ketone				Ketone		ether			
95-63-6	100-41-4	100-51-6	107-98-2	108-10-1	108-65-6	108-88-3	108-94-1	110-43-0	111-76-2	111-77-3	123-54-6	123-86-4	141-78-6
C	C	B	C	C	C	C	C	C	B	C	C	C	C
12,301	43,427	884	36,000	20,486	36,000	37,668	10,036	23,500	2,417	NE	409	71,276	144,163
1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	0	0	1	0	1	0	0	0	1	0	0	0
30.64	61.29	61.29	91.93	30.64	30.64	122.57	122.57	107.25	30.64	0.31	30.64	122.57	63.68
0.00	1.49	0.00	0.00	0.00	6.69	1.49	0.00	0.00	0.00	0.00	0.00	1.49	0.00
31	63	61	92	31	37	124	123	107	31	0	31	124	64
31	63	61	92	31	37	124	123	107	31	0	31	124	64
0	63	0	0	31	0	124	0	0	0	0	0	0	0

Epoxy resin
37312-33-7
C
NE
0
0
76.61
0.00
77
0
0

Summary data

PRODUCT	MANUFACTURER	1998 GALLONS	VOC	EMISSIONS	Solids		Formal-	Isopropyl	n-Butyl	Methyl
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	black	compounds		amorphous	solvent	dioxide	chromate	crystalline		(quartz)	diglycidyl	methyl	Diisocyanate
		as Cr	(PM10)	hydrated		(PM)	as Cr	(cristobalite)		(PM-10)	ether polymer	phenol	(HDI) polyme
1330-20-7	1333-86-4	7440-47-3	7440-66-6	7631-86-9	8052-41-3	13463-67-7	13765-19-0	14464-46-1	14807-96-6	14808-60-7	25068-38-6	25338-55-0	28182-81-2
C	A	A	C	amorphous	C	C	A	A	C	A	C	A	C
43,427	35	0.25	500	0.5	35,000	NE	0	0.5	200	1	NE	NE	NE
1	0	0	0	0	1	0	0	0	0	0	0	1	0
1	0	1	0	0	0	0	1	0	0	0	0	0	0
153.22	80.29	12.26	67.42	42.72	0.43	153.22	15.32	61.29	45.97	91.93	268.13	30.64	306.44
0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
154	80	12	67	43	0	153	15	61	46	92	268	31	306
154	0	0	0	0	0	0	0	0	0	0	0	31	0
154	0	12	0	0	0	0	15	0	0	0	0	0	0

,2,4-Trimethy	Ethyl	Benzyl	PGME	Methyl	PGME	Toluene	Cyclohexanon	Methyl	Butyl	Diethylene	2,4-Pentane-	Butyl Acetate	Ethyl
Benzene	Benzene	alcohol	(Methoxy-	iso-butyl	Acetate			Amyl	Cellosolve	glycol methyl	dione		Acetate
			propanol)	Ketone				Ketone		ether			
95-63-6	100-41-4	100-51-6	107-98-2	108-10-1	108-65-6	108-88-3	108-94-1	110-43-0	111-76-2	111-77-3	123-54-6	123-86-4	141-78-6
C	C	B	C	C	C	C	C	C	B	C	C	C	C
12,301	43,427	884	36,000	20,486	36,000	37,668	10,036	23,500	2,417	NE	409	71,276	144,163
1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	1	0	0	1	0	1	0	0	0	1	0	0	0
30.64	61.29	61.29	91.93	30.64	30.64	122.57	122.57	107.25	30.64	0.31	30.64	122.57	63.68
0.00	1.49	0.00	0.00	0.00	6.69	1.49	0.00	0.00	0.00	0.00	0.00	1.49	0.00
31	63	61	92	31	37	124	123	107	31	0	31	124	64
31	63	61	92	31	37	124	123	107	31	0	31	124	64
0	63	0	0	31	0	124	0	0	0	0	0	0	0

Epoxy resin
37312-33-7
C
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FAC 3620

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

June 9, 1999

Bob Sherwin Jr.
SherWill Environmental
10388 East 21 street
Tulsa, OK 74129

Re: Permit Application Number **99-026-O**

Dear Mr. Sherwin,:

Review of the Operating Permit Application revealed the need for additional information regarding the Vapor Degreaser used at the LIMCO-Airepair Company i.e., is it a cold (non-heated), batch process, and does LIMCO consider the operation of the degreaser to be exempt from 40 CFR 63 Subpart T?

As the permit draft is being created there is the possibility that more information may be requested.

Please submit the requested information within 60 days. You should be aware that failure to submit an adequate response within 180 days might result in withdrawal of your application and forfeiture of your application fees. The permit review time is hereby tolled pending receipt of the requested information.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 461-7400. The DEQ Regional Office at Tulsa is now located at **(new location)** 5051 South 129th East Avenue, Tulsa, OK, **new mailing address** POBox 690898, zip 74169-0898.

Sincerely,

Jack Fly
Permit Writer

June 10, 1999

Mr. Jack Fly
DEQ Regional Office at Tulsa
5051 South 129th East Avenue
Tulsa, OK 74169

Re: Permit Application Number 99-026-O

Dear Mr. Fly:

This letter is in response to your letter dated June 9, 1999. The vapor degreaser used at LIMCO-Airepair is a batch process. The operations are not exempt from 40 CFR 63 Subpart T. The facility is complying with Subpart T by using the following control methods: The solvent/air interface area is 1,268.5 square inches; tank capacity is 110 gallons; temperature at the center of the air blanket is 86 degrees F; and the freeboard ratio is 1:0. Existing controls include: a primary condenser for controlling the vapor blanket, sump heating coils to heat the liquid solvent, an are in the process of re-installing a lid that is leak-proof and crack free, and reduced room draft. Safety shut-down controls include overtemperature and low sump level alarms.

Also, LIMCO-Airepair will use the following control combinations, monitoring, training and recordkeeping requirements to ensure they met the guidelines that are specified in 40 CFR Part 63.463, Subpart T.

If you have any further questions or need additional information, please don't hesitate and call me at (918)622-2782.

Sincerely,

Robert E. Sherwin, Jr.
President

cc: Bob Johnson; LIMCO-Airepair, Inc.

SHERWILL
ENVIRONMENTAL
HEALTH & SAFETY
CONSULTANTS

SherWill, Inc.
10388 E. 21st Street
Tulsa, OK 74129

Answ. Serv. (918) 660-5103
Office/Fax (918) 622-2782

AIR QUALITY PERMIT APPLICATION
GENERAL FACILITY INFORMATION

FAC 3620
99-026-O

1	COMPANY INFORMATION	Name	LIMCO-Airepair, Inc.				
Mailing Address	5304 S. Lawton Avenue						
City	Tulsa	State	OK	Zip	74107		

2	APPLICATION TYPE (check one)								
	Applicability Determination		X	Construction	X	Operation		Modification		Relocation	
Est. Date of Construction/Modification Start:						Completion:			
Operational Start-up Date	1-95								

3	CONFIDENTIAL INFORMATION INCLUDED		YES	X	NO

4	TIER CLASSIFICATION		Tier I	X	Tier II		Tier III		N/A, AD only
FACILITY TYPE	X	Minor		Major					

5	FEES SUBMITTED	$ 750.00	CHECK #	021663	DATE 4-26-99

6	TECHNICAL CONTACT	Name	Bob Sherwin Jr.			
Phone	622-2782	Fax	622-2782			
Company Name	SherWill Environmental, Health & Safety Consultants					
Street Address	10388 E. 21st Street					
City	Tulsa	State	OK	Zip	74129	

6a INTERNET ADDRESS Sherwin@ionet.net

7	FACILITY INFORMATION	Name	LIMCO-Airepair, Inc.			
Description	Manufactures & Repaires Aerospace Parts					
SIC Code(s)	3728					
Contact Person	Bob Johnson	Title	Controller	Phone	445-4300	
Legal Description	Section	35	Township	19N	Range	12E
Physical Address or Driving Directions	5304 South Lawton Avenue					
City or Nearest Town	Tulsa	Zip	74107	County	Tulsa	

8	Describe Any Residence, Park, School, etc. within ¼ mile	N/A

9	LIST ALL CURRENT AIR QUALITY PERMIT NUMBERS AT THIS FACILITY
N/A	
10	APPLICATION CERTIFICATION

This application has been submitted as required by OAC 252:100-7. Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this application are true, accurate, and complete.

Responsible Official (signature)			
Responsible Official (typed)	Bob Johnson	Date	4-23-99
Responsible Official Title	Controller	Phone	445-4300

DEPARTMENT OF ENVIRONMENTAL QUALITY

AFFIDAVIT ABOUT NOTICE TO LANDOWNER*

I, as the applicant or an authorized representative of the applicant, hereby certify that notice to the landowner(s) about the application described below:

__X__ IS NOT REQUIRED because:
_____ My application does not involve any land.
__X__ My application involves only land owned by me (or the applicant business).

A._____ IS REQUIRED because the land is owned by someone other than myself or the applicant business AND I HAVE NOTIFIED the landowner(s) by:
_____ actual notice for which I have a signed and dated receipt;
_____ service by sheriff or private process server for which I have an affidavit;
_____ service by certified mail restricted delivery for which I have a signed return receipt; or
_____ legal publication, for which I have an affidavit of publication from the newspaper, because the landowners could not be located through due diligence.

B._____ IS REQUIRED BUT INSTEAD of notice to the landowner(s), I notified the lessor or administrator or executor of the land by the method checked above. (Briefly explain here.)

IF THE APPLICANT DOES NOT OWN THE LAND, MY/ITS RIGHT TO USE THIS LAND is by:
_____ lease.
_____ easement.
_____ (Other) _____.

_____
Signature of Applicant or Applicant's Authorized Representative Position

Robert E Johnson — April 22, '99
Name of Applicant (If Different from Signature Name) Date Signed

APPLICATION INFORMATION

Type: Air Quality Hazardous Waste Solid Waste UIC Water Quality Other___

Name of Permit Requested: _____

Application Tier (if known): _____I _____II _____III

Name & Address of Facility: _____

_____

_____

Complete and return to the DEQ program processing your permit.

Introduction

LIMCO-Airepair, Inc., located at 5304 South Lawton Avenue, Tulsa, Oklahoma, manufactures and repairs heatexchanger and oil cooler parts for the aerospace industry. The facility operates under the Standard Industrial Classification (SIC) Code: 3728

This is an application for a construction/operation permit for facility wide sources/processes that emits more than 5 tons of VOC's/year, uses natural gas to fuel drying and heat-treat ovens, paint booth, vapor degreaser, clean-line and welding operations.

Instruction #1: Required Information

1. Description of the process or operation.

   LIMCO-Airepair, Inc. manufactures and repairs parts for the aerospace industry. The parts are constructed from various metal alloys (stainless steel, aluminum, etc.) and a small volume (about 2% of parts) are painted in the paint booth and the rest are either coated by the alodine process or sent of to be dipped/coated with an aluminum paint before shipment to the customer.

2. Include a process flow diagram. This should be a simplified diagram, identifying each process or operation.

   Attachment 1 is a process flow diagram showing the flow of parts in and out of each process. Attachment 2 is a copy of the plant layout and the names of each department or process area.

3. The applicant must list and identify all expected air emissions, including toxic and hazardous substances. This information is a vital part of the application. Give the amount of these individual substances in rates of pounds per hour and tons per year. Specify and explain the basis used for this estimate, and include supporting data. Key emissions to process flow diagram by number or other identification means.

   Air emissions at LIMCO-Airepair, Inc. will be VOC's, welding operations, and from fuel burning sources (ovens) and clean-line processes. Copies of the material safety data sheets (MSDS) for all VOC sources are located in Attachment 3.

   The expected potential facility criteria emissions in pounds per hour and tons per year are listed below. The 1998 usage figures were used as the source for the numbers for the VOC emitting processes in the spreadsheet. The spreadsheet is shown in Attachment 4.

AIR EMISSIONS SUMMARY

Source/Emissions	Tons/Year	Pounds/Hour
Vapor Degreaser-Trichloroethylene	3.57	1.43
Cleaning Parts - MEK	1.88	0.75
Pressure Test - Mineral Spirits	0.75	0.30
Wiping Parts - Isopropyl Alcohol	0.29	0.11
Wiping Parts - Toluene	0.02	0.008
Paint Booth - VOC's (Total)	0.23	0.09

3 Ovens - Natural Gas (see questions #10 for gas usage and Attachment 6 Turn Around Document for point source emissions using Section 1.4 of AP-42). The other ovens used in the facility are powered by electricity.

Welding Operations used 0.87 Tons of rod for TIG welding. According to AP-42 method for determining air emissions produced from welding operations was insignificant. Also, according to Title V permitting requirements that if the welding process uses less that 53 tons of welding rod/wire then the source is insignificant and not necessary to report emissions.

Clean-Line Operations - see Question #7 for chemical usage and amounts). The process uses so little of acids and caustic solutions and should not be included within this permit application process. The tanks that are heated, use electricity to power the heating coils, not natural gas.

4. For major sources, provide the information requested in Instruction #2. A major source is defined as one which has the capability at maximum design capacity to emit 100 tons per year of any one pollutant.

   Not Applicable, LIMCO-Airepair, Inc. will not emit more than 25 tons per year of any single pollutant, nor 100 tons of total pollutants.

5. Give maximum process weight in pounds per hour and basis for calculation for establishing this number. (If necessary, a definition of process weight is given OAC 252:100-1). For nonmetallic mineral processing plants provide the maximum process weight in pounds/hour for each of equipment including each conveyor belt, and the plant capacity (the cumulative rated capacity of all initial crushers that are part of the plant).

   From the spreadsheet, the maximum process weight was calculated by taking the total number of VOC's facility wide = 13,391.05 pounds and divided by the number of hours in one year (8760). Maximum process weight for LIMCO-Airepair, Inc. is 1.52 pounds per hour.

   Actual process weight was calculated by the same formula with the exception of total actual operating hours (4992) being used. Actual process weight is 2.68 pounds per hour.

6. Hours of operations per day, days per week, weeks per year. (operating permit will be limited to the number of total hours of operation per year.) Where differences exist between operations, specify each rate.

The operating periods for which the permit is being sought are as follows:

Hours/day: 16
Days/week: 6
Weeks/year: 52

7. Describe the materials used in the process. Give their use or function when it is not self-explanatory.

Principal raw materials are metals (stainless steel and aluminum) of various gauges (thickness) and alloys of metal that are used in the manufacturing and repair of aerospace parts.

The Aero Duct (plenum ducts) process uses clean-line to clean, alodine parts, then sent to the paint booth to be primer and paint.

The Repair Process for heatexchangers and oil coolers goes to the Pressure Test Area and filled with combinations of coolants, oils, mineral spirits and isopropyl alcohol to tested for leaks, and then sent to the clean-line to be processed, then is dried in the ovens to remove moisture, and then sent to the paint booth to be painted (Oil-Coolers get primer and high-heat bake black paint, C-130 - Heatexchangers uses flat black paint (1 gallon for 1998) and 95% of all parts are alodine or sent out to be aluminum coated.

The Manufacturing Process cuts rolled sheets of stainless steel metal and forms fins. The fins are sent to be cleaned of oils by using MEK. Then they are cleaned more thorough by using the vapor degreaser process which uses 1,1,1 Trichloroethylene. The fins are sent back to be welded, stacked, brazed into various types of heatexchangers and oil-cooler parts. They are sent to the Pressure Test Area to be certified (see paragraph above for chemicals used), then sent to the clean-line to be cleaned. The parts will be either painted, alodine or sent out to be coated with aluminum paint. Manufacturing section uses Aviation gray paint for Magoca Gear Box Oil-Cooler and primer for Boeing Yellowjacket Fuel Cell Heatexchanger. They use 1 gallon/month of MEK and 0.5 gallon/month of Isopropyl Alcohol in the bench areas.

The paint department uses various primers, paints, epoxy coated, polyurethane materials and uses MEK to clean paint guns. On occasion uses xylene and toluene

to clean parts and materials of debris. All the paint waste is collected in drums and disposed of properly.

The Pressure Test Area uses coolants, oils, mineral spirits and isopropyl alcohol to test aircraft parts. Once the part has been tested it is immediately depressurized and drained into waste drums and properly disposed of as hazardous waste material.

The Clean-line Operations uses the following chemicals: Sulfuric Acid, Nitric Acid, Caustic soda, Hydrofluoric Acid and Sodium Medabisulfate. The tanks that are heated processes, uses electricity to heat coils, not natural gas. The following are the processes, chemicals used, dimensions of tanks, and amounts used in 1998. (See Attachment 7 for copy of MSDS's).

1. Waste water Treatment Process - Uses 2.5 drums/month of Sulfuric acid at 98% concentration that is diluted with water to a concentration of 10% Sulfuric Acid solution. Polymer to flocculate out metals and uses 1 gallon/month. Sodium Medabisulfate comes in 50 pound bags and mixed with water in a 55 gallon barrel. The use is for controlling the PH before discharging the waste water. Used 400 pounds last year.

2. Nitric and Hydrofluoric tank - The tank holds 40 gallons of solution and the W-1.5' x L-8' x D-2'. The process used 180 pounds of nitric acid and 144 gallons of hydrofluoric acid last year. The tank is keep at ambient temperature.

3. Isoprep 44 Process - Caustic degreaser that has a Ph of 10.5 and is classified as a soap cleaner. The tank is 284 gallons and the dimensions are W-4' x L-6' x D-28". The temperature of the tank is kept at 150F. The total amount used for 1998 was 3 drums (1,500 pounds).

4. Isoprep 33 Process - Hot alkaline etch (Caustic soda beads). The tank size, dimensions and temperature is the same as the Isoprep 44 Process. The total amount for 1998 used was 4 drums (2,200 pounds).

5. Smut-Go Process - To de-snut aluminum parts. The product consist of nitric acid. The tank size is 150 gallons and dimensions are W-4' x L-6' x D-28". The tank is kept at ambient temperature. The use for 1998 was 30 gallons.

6. Turco 4215 Process - Alkaline cleaner for aluminum parts. The tank size is 500 gallons and the

dimensions are W-4' x L-10' x D-28". The tank is kept at 135F. The total amount used in 1998 is 450 pounds. The material comes in powder form and is mixed with water.

7. Allodyne 1200S Process - For alodyning aircraft parts. The tank size is 325 gallons and the dimensions are W-4' x L-6' x D-28". The tank is kept at 85F. The total amount used in 1998 is 240 pounds. The material comes in powder form and is mixed with water.

8. If the process is cyclical instead of continuous, give length of cycle and time between cycles.

   All processes are continuous.

9. Does the process involve the use of potentially hazardous air contaminants and toxic materials? If so, and emission rate exceeds specified de minimis rates, determine MAAC and provide documentation to determine off property line maximum ground level concentration.

   Hazardous air contaminants will be emitted from the painting, vapor degreasing, cleaning parts, bench areas, and Pressure test area. The form of VOC's such as xylene, toluene, mineral spirits, isopropyl alcohol, MEK and trichloroethylene are considered to be low toxicity, Category C, substances. Some of the paints and primers has strontium chromate, chromium, crystalline silica and formaldehyde which are high toxicity, Category A substances. The emission of these substances are well below the de minimis levels.

10. For any combustion units, provide the information requested in Instruction No.#4, Items 2,3,4, and 7.

    LIMCO-Airepair has 3 ovens which uses natural gas fuel for operation. See Attachment 6; Point Source Turn Around Document to see the emissions for each source listed below. The following are the specifics:

    1. Grieve Gas Convection Oven #1 - Rated Heat Index is 175,000 Btu/hr.; and the fuel consumption for 1998 was 103.6 mmBtu. The maximum temperature is rated at 1250F.

    2. Jet Sweep Oven Model PB-1 #2 - Rated Heat Index is 300,000 Btu/hr.; and the fuel consumption for 1998 was 621.6 mmBtu. The oven temperature ranges from 0-500F, however the temperature never gets over 200F. The oven is used to dry parts of moisture after coming from the clean-line process.

3. Gehrich Drying Oven #3 - Rated Heat Index is 300,000 Btu/hr.; and the fuel consumption for 1998 was 310.8 mmBtu. The temperature range is 0-500F and is used exactly as the Jet Sweep Oven listed directly above.

Item #7 is not applicable at this particular facility.

11. For any hydrocarbon tanks provide the information requested in Instruction #3.

Not Applicable.

12. Include a plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Key all flows and discharge outlets to the process flow diagrams by number or other identification means.

A facility plan with the requested information is included in Attachments 1 and 2.

13. Include a plot plan showing locations of the establishments, property lines, surrounding area residences and other types of structures and roadways.

See Attachment #5.

14. Fugitive Dust Control. Specify procedures to be used to minimize air pollution from operations not involving process emissions in which particulates are likely to be windborne, including the following items:

(a) Service roads and parking areas: These areas are all paved.
(b) Stockpiles or storage areas: Stockpiles are of raw materials such as steel and wood crates for shipping parts that do not produce a "fugitive dust"; storage areas for chemicals are enclosed inside.
(c) Loading and unloading materials: Materials are loaded and unloaded at the shipping and receiving dock.
(d) Transportation of dusty material by truck: not applicable.
(e) Any other enterprise which involves a substance likely to be scattered by the wind or susceptible to being airborne: The hazardous waste storage area is located outside on a concrete pad that is not covered. However, the area is monitored daily for container conditions and if any leaks/spills are present. We have procedures to ensure the integrity of this particular process through our RCRA Program, Spill Prevention Contigency Plan and Pollution Prevention Plan as part of the Stormwater Run-off Permit.

15. Emission Point Data

Paint Booth:

(a) Height above grade - 8 feet; Total Dimensions 12'D x 12'W x 8'H.
(b) Stack Inside Diameter - Not applicable; the paint booth vents to the outside west wall (from the outside the vent looks like a oversized louver) about 14' off the ground.
(c) Stack gas volume, velocity, temperature - Not Applicable.
(d) Mass emission rates, lbs/hr. - see emission table, Instruction 1, Item 3, and spreadsheet, Attachment 4.
(e) Distance to surrounding obstructions, give heights and plan view dimensions. No obstructions in the area.
(f) Facility property line locations - see Attachment 5.
(g) Type and number of guns used in booth: Only one gun is used and it is a Devilbiss model JGHV 531 HVLP.
(h) Transfer efficiency rate of guns: 50% efficient.
(i) Type of filter/filter efficiency: Paper Paint Collector Standard and the size is 20"x20"x1". The capture efficiency is 95%.

16. Specify whether stack sampling ports are being included in the construction and identify which stacks.

No sampling ports are included.

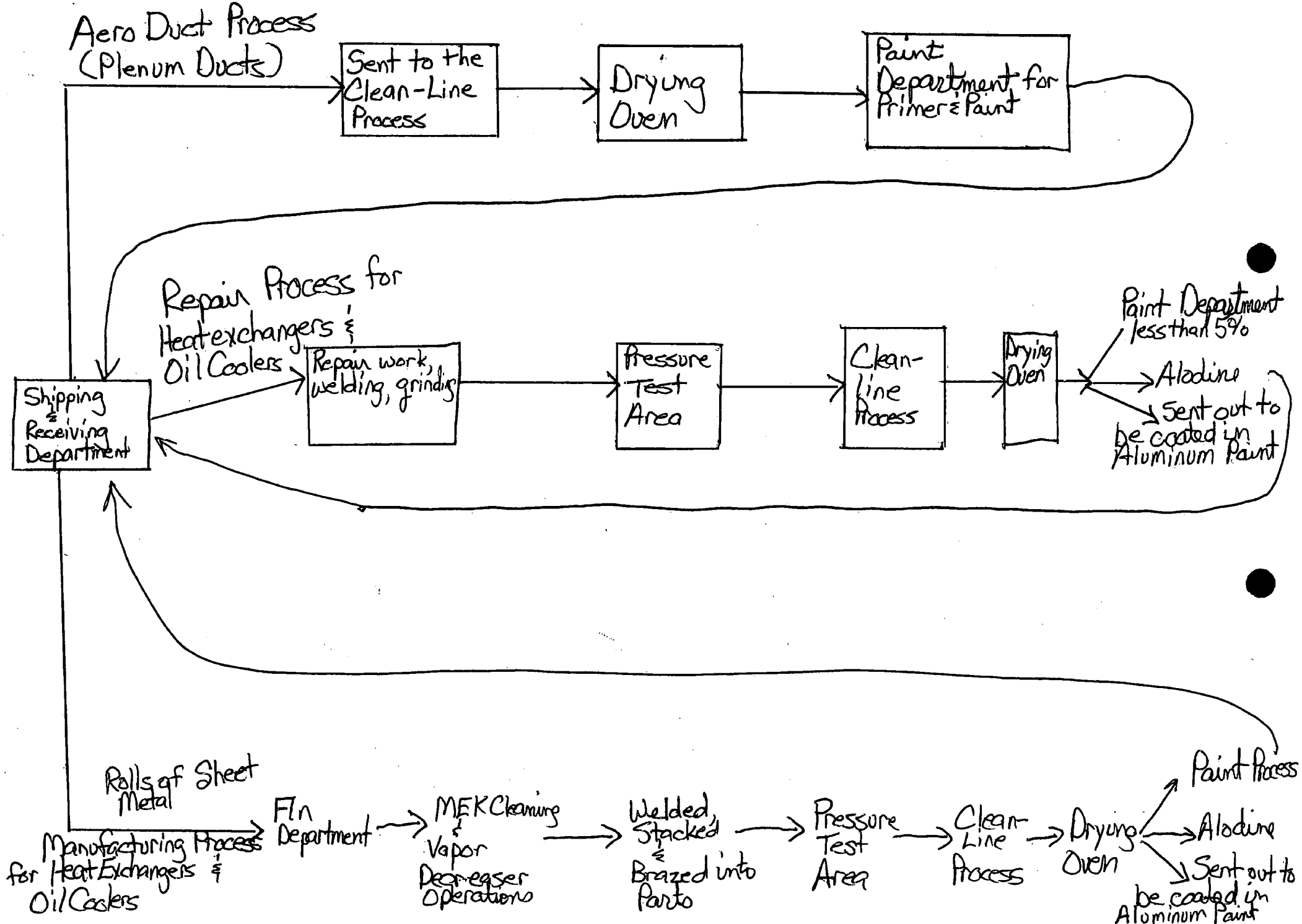
17. Air pollution control equipment.

The paint filter functions as the only pollution control equipment to control particulate emissions from the painting operations. There are no controls for VOC emissions.

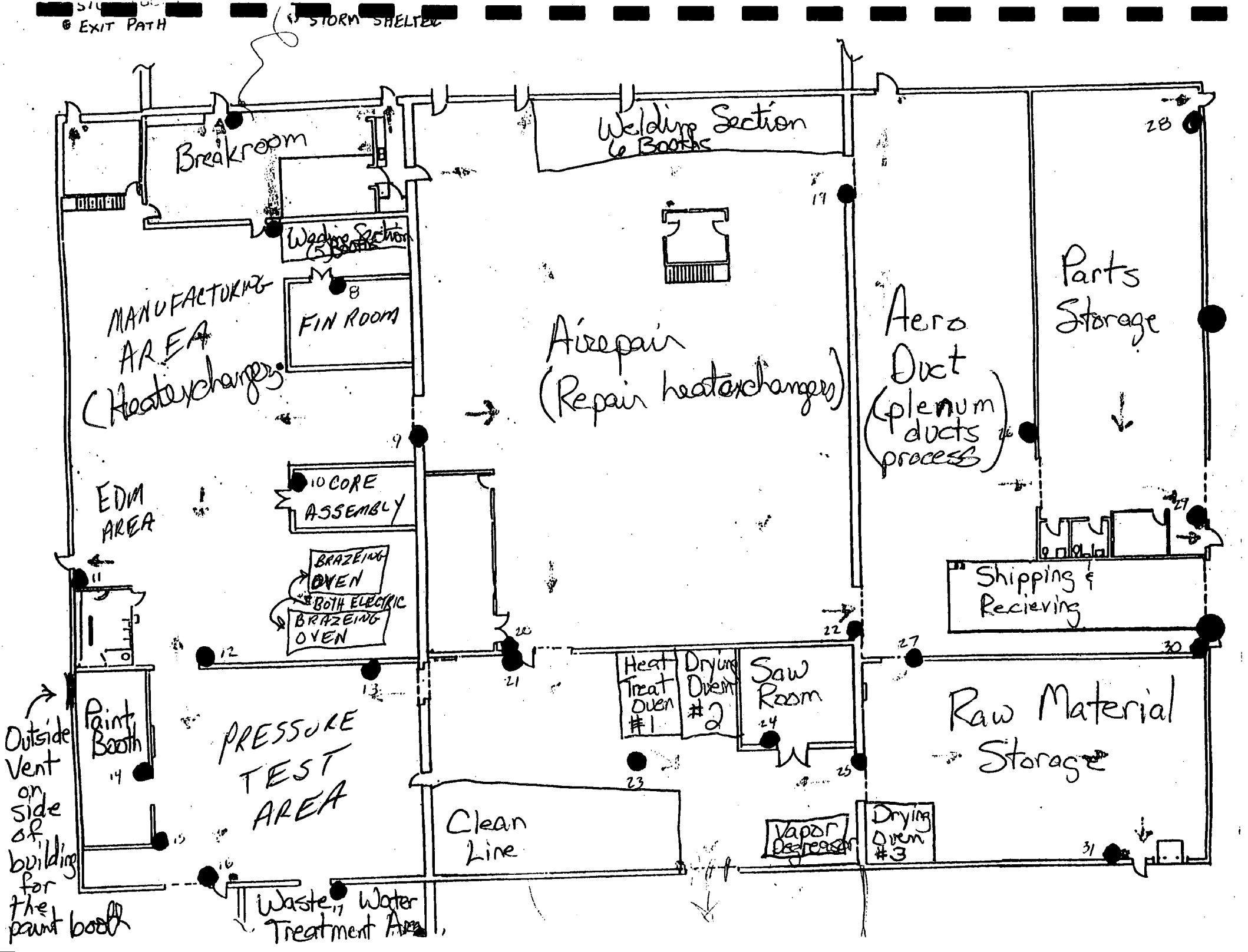
18. Additional Information.

Instruction #2 (Reserved): Not applicable
Instruction #3: Not applicable
Instruction #4: Included in Question #10.
Instruction #5: Not applicable
Instruction #6: Not applicable
Turn Around Document: Included in Attachment 6.

ATTACHMENT 1


Aero Duct Process
(Plenum Ducts)
Sent to the Clean-Line Process
Drying Oven
Paint Department for Primer & Paint
Repair Process for Heatexchangers & Oil Coolers
Repair work, welding, grinding
Pressure Test Area
Clean-line Process
Drying Oven
Paint Department less than 5%
Alodine
Sent out to be coated in Aluminum Paint
Shipping & Receiving Department
Rolls of Sheet Metal
Manufacturing Process for Heat Exchangers & Oil Coolers
Fin Department
MEK Cleaning & Vapor Degreaser Operations
Welded, Stacked & Brazed into Parts
Pressure Test Area
Clean-Line Process
Drying Oven
Paint Process
Alodine
Sent out to be coated in Aluminum Paint

ATTACHMENT 2


EXIT PATH
STORM SHELTER
Breakroom
Welding Section
6 Booths
Welding Section
5 Booths
MANUFACTURING AREA
(Heatexchangers)
8
FIN ROOM
Airepair
(Repair heatexchangers)
Aero Duct
(plenum ducts process)
Parts Storage
EDM AREA
10 CORE ASSEMBLY
BRAZEING OVEN
BOTH ELECTRIC
BRAZEING OVEN
Shipping & Recieving
Paint Booth
PRESSURE TEST AREA
Heat Treat Oven #1
Drying Oven #2
Saw Room
Raw Material Storage
Outside Vent on side of building for the paint booth
Clean Line
Vapor Degreaser
Drying Oven #3
Waste Water Treatment Area

ATTACHMENT 3

Material Safety Data Sheet for B/L number 1998-84795/01

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Trichloroethylene degreasing gr
HCI PRODUCT ID NUMBER: 03252
SYNONYMS: Trichloroethene, Trichlorethylene, Trichlor
CHEMICAL FAMILY NAME: Hydrocarbons, aromatic, halogens

NFPA HAZARD RATINGS (H-F-R): 2-1-0
HMIS HAZARD RATINGS (H-F-R): 2-0-0

DISTRIBUTOR: HCI U.S.A. DISTRIBUTION COMPANIES, INC.
TECHNICAL RESOURCE CENTER
6529 S. BROADWAY
ST. LOUIS, MO 63111
(314) 353-6500

IN CASE OF EMERGENCY CALL: CHEMTREC 1-800-424-9300

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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
Trichloroethylene	000079-01-6	>99

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

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3. HAZARDS IDENTIFICATION

********** EMERGENCY OVERVIEW **********

Warning!
Contact with the eyes and skin can cause irritation.
Harmful or fatal if inhaled.
Harmful if swallowed.
May cause central nervous system depression.
Cancer hazard. Contains material which can cause cancer.

Continued

EXPOSURE GUIDELINES

INGREDIENT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Trichloroethylene	50 ppm	100 ppm	100 ppm	200 ppm v

v = vacated by 58 FR 35338, June 30,1993

See 29 CFR 1910.1000 (D)(2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

---

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Clear, colorless
ODOR:	Ether-like odor
MOLECULAR WEIGHT:	131.38
SPECIFIC GRAVITY:	1.465 @ 20 C
SOLUBILITY (IN WATER):	0.11%
BOILING POINT:	>186 F
FREEZING POINT:	-123.52 F -86.4 C
MELTING POINT:	-123.52 F -86.39 C
PRODUCT pH (@ 23 C):	6.7-7.5
VAPOR PRESSURE:	57.8 mmHg @ 20C
VAPOR DENSITY:	4.54
EVAPORATION RATE (BUTYL ACETATE=1):	N/AV
% VOLATILES:	100

---

10. STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable

COND. TO AVOID: Keep away from heat, sparks, and open flames.

INCOMPATIBILITY: Metals
Bases
Strong oxidizers
Combustible materials
Chlorine

DECOMPOSITION: Toxic oxides of carbon
Phosgene
Halogenated compounds

Continued

EXXON CHEMICAL

MATERIAL SAFETY DATA SHEET

EXXON CHEMICAL COMPANY

A Division of EXXON CORPORATION

METHYL ETHYL KETONE

DATE PREPARED: MAR 28, 1998
MSDS NO.: 92050000

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Methyl Ethyl Ketone

CHEMICAL NAME:
2-Butanone CAS 78-93-3

CHEMICAL FAMILY:
Ketone

PRODUCT DESCRIPTION:
Clear colorless liquid.

CONTACT ADDRESS:
EXXON CHEMICAL COMPANY
P.O. BOX 3272, HOUSTON, TEXAS 77253-3272

** EMERGENCY TELEPHONE NUMBERS: (24 Hours) **
** CHEMTREC (800) 424-9300 **
** EXXON CHEMICAL COMPANY (800) 726-2015 **

NON EMERGENCY TELEPHONE NUMBERS : (8am-5pm M-F)
FOR HEALTH AND SAFETY INFORMATION CALL : (281) 870-6884
FOR GENERAL PRODUCT INFORMATION CALL : (281) 870-6000

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is hazardous as defined in 29 CFR1910.1200.
OSHA HAZARD
Flammable
PEL; TLV
Eye irritant

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE CONTACT:
Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage.

SKIN CONTACT:
Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity.

INHALATION:
Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects. Low order of toxicity.

INGESTION:
Low order of toxicity.
Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

CHRONIC EFFECTS
There is no evidence that exposure to Methyl Ethyl Ketone (MEK) alone causes progressive or irreversible neurotoxic effects. However, simultaneous over-exposure to MEK and n-Hexane can potentiate the known irreversible neurotoxic effects of n-Hexane. There is no reported human evidence that these

Continues on page 2

The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, Exxon Chemical recommends that the lower exposure levels be observed as reasonable worker protection.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:
A TWA of 200 ppm (590 mg/m3) and a STEL of 300 ppm (885 mg/m3) for Methyl Ethyl Ketone.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY, at °F:
0.81 at 68

SOLUBILITY IN WATER, wt. % at °F:
26.30 at 68

VAP. GRAV. OF VAPOR, at 1 atm (Air=1):
Greater than 1.00

EVAPORATION RATE, n-Bu Acetate=1:
6.0

VAPOR PRESSURE, mmHg at °F:
83 at 75
173 at 100

VISCOSITY OF LIQUID, cSt at °F:
0.5 at 68

FREEZING/MELTING POINT, °F:
Less Than 32

BOILING POINT, °F:
175 to 177

SECTION 10 STABILITY AND REACTIVITY

STABILITY:
Stable

CONDITIONS TO AVOID INSTABILITY:
Not Applicable

HAZARDOUS POLYMERIZATION:
Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:
Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:
Caustics, amines, alkanolamines, aldehydes, ammonia, strong oxidizing agents, and chlorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS:
None

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Please refer to Sections 5, 6, and 15 for disposal and regulatory information.

Continues on page 5

RD 10/4/91

MATERIAL SAFETY DATA SHEET

Shell

MSDS NUMBER ▶ 5,120-15 PAGE 1

97367 (4-85)

24 HOUR EMERGENCY ASSISTANCE	GENERAL MSDS ASSISTANCE
SHELL: 713-473-9461 CHEMTREC: 800-424-9300	SHELL: 713-241-4819

ACUTE HEALTH *	FIRE	REACTIVITY	HAZARD RATING ▶
2	3	0	LEAST - 0 SLIGHT - 1 MODERATE - 2 HIGH - 3 EXTREME - 4

*For acute and chronic health effects refer to the discussion in Section III

BE SAFE
READ OUR PRODUCT SAFETY INFORMATION ... AND PASS IT ON
(PRODUCT LIABILITY LAW REQUIRES IT)

SECTION I

	NAME
PRODUCT ▶	ISOPROPYL ALCOHOL
CHEMICAL NAME ▶	IPA, ISOPROPANOL, 2-PROPANOL
CHEMICAL FAMILY ▶	ALCOHOL
SHELL CODE ▶	31110

SECTION II-A PRODUCT/INGREDIENT

NO.	COMPOSITION	CAS NUMBER	PERCENT
1	ISOPROPYL ALCOHOL (IPA)	67-63-0	100

SECTION II-B ACUTE TOXICITY DATA

NO.	ACUTE ORAL LD50	ACUTE DERMAL LD50	ACUTE INHALATION LC50
1	5840 MG/KG (RAT)	13000 MG/KG (RABBIT)	12000 PPM (RAT) 8 HRS

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT
MODERATELY IRRITATING TO THE EYES.

SKIN CONTACT
MILDLY IRRITATING TO THE SKIN.

INHALATION
MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT AND RESPIRATORY TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION
IRRITATING TO THE GASTROINTESTINAL TRACT, CAUSING ABDOMINAL PAIN AND VOMITING, SOMETIMES BLOODY. INGESTION MAY CAUSE CNS DEPRESSION, LOW BLOOD PRESSURE, RAPID HEART BEAT AND LIVER DAMAGE.

SIGNS AND SYMPTOMS
IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY DIZZINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONCIOUSNESS, RESPIRATORY DEPRESSION AND DEATH MAY OCCUR. LIVER DAMAGE MAY BE EVIDENCED BY LOSS OF APPETITE, JAUNDICE (YELLOWISH SKIN COLOR) AND SOMETIMES PAIN IN THE UPPER ABDOMEN ON THE RIGHT SIDE.

SECTION VII PHYSICAL DATA

BOILING POINT: 180 (OEG F) | SPECIFIC GRAVITY: 0.79 (H2O=1) | VAPOR PRESSURE: 32 @ 68 DEG F (MM HG)

MELTING POINT: 127 (OEG F) | SOLUBILITY: COMPLETE (IN WATER) | VAPOR DENSITY: 2.1 (AIR=1)

EVAPORATION RATE (N-BUTYL ACETATE =1): 1.4 | VOC: 100% @ 6.51 LB/GAL

APPEARANCE AND ODOR: COLORLESS, MOBILE LIQUID. MILD ODOR.

SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:
53 OEG F -TCC

FLAMMABLE LIMITS /% VOLUME IN AIR
LOWER: 2 UPPER: 12

EXTINGUISHING MEDIA
USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL OR CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS
WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS
CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

SECTION IX REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:
AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS. DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. F.

HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION
IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING
AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT. TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE AND NATURAL RUBBER GLOVES.

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Toluene
HCI PRODUCT ID NUMBER: 03200
SYNONYMS: Methyl benzene, Toluol, Phenylmethane
CHEMICAL FAMILY NAME: Aromatic hydrocarbon

NFPA HAZARD RATINGS (H-F-R): 2-3-0
HMIS HAZARD RATINGS (H-F-R): 2-3-0

DISTRIBUTOR: HCI U.S.A. DISTRIBUTION COMPANIES, INC.
TECHNICAL RESOURCE CENTER
6529 S. BROADWAY
ST. LOUIS, MO 63111
(314) 353-6500

IN CASE OF EMERGENCY CALL: CHEMTREC 1-800-424-9300

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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
Toluene	000108-88-3	100

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

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3. HAZARDS IDENTIFICATION

********** EMERGENCY OVERVIEW **********

Danger!
Contact with the eyes and skin can cause irritation.
Harmful or fatal if swallowed.
Excessive inhalation may cause central nervous system depression.
This material is highly toxic by ingestion.
Pulmonary aspiration hazard- can enter lungs and cause damage.

Continued

PERSONAL PROTECTIVE EQUIPMENT

SKIN: Wear protective gloves made of neoprene or rubber.

EYES: Wear chemical safety goggles.

RESPIRATORY: If engineering controls do not maintain airborne concentrations below recommended limits, use a NIOSH-approved respirator for organic vapors.

OTHER: Emergency showers, eye-wash stations, and fire blankets should be accessible. Wear protective clothing.

EXPOSURE GUIDELINES

INGREDIENT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Toluene	50 ppm (s)	150 ppm	200 ppm	150 ppm

s = skin

See 29 CFR 1910.1000 (D)(2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Colorless, clear
ODOR:	Sweet aromatic
MOLECULAR WEIGHT:	92.14
SPECIFIC GRAVITY:	0.8669
SOLUBILITY (IN WATER):	<0.1 %
BOILING POINT:	231 F 110.54 C
FREEZING POINT:	-139 F -94.99 C
MELTING POINT:	N/AV
PRODUCT pH (@ 23 C):	N/AV
VAPOR PRESSURE:	22 mmHg @ 20 C
VAPOR DENSITY:	3.2
EVAPORATION RATE (BUTYL ACETATE=1):	2.24
% VOLATILES:	100

Continued

130 F

Material Safety Data Sheet
Mixed Xylenes

PHIBRO ENERGY USA, INC.
500 DALLAS AVE., SUITE 3200
HOUSTON, TX 77002

Emergency Phone Numbers
24 Hour Emergency 713-923-6641
Chemtrec Emergency 800-424-9300

General Assistance
Medical Assistance 713-797-0395
General Assistance 713-646-5135

I. GENERAL INFORMATION

Trade Name
Xylene
Chemical Family
Aromatic Hydrocarbon
Synonyms
o-, m- and p-xylene, Xylol, Dimethyl Benzene

CAS Registry Number
1330-20-7
DOT Proper Shipping Name
Xylene
DOT Hazard Class/Packaging Group
3 Flammable Liquid/III
DOT Identification Number
UN 1307
Reportable Quantity
Xylene/Ethylbenzene-1000 lb

II. SUMMARY OF HAZARDS

May cause irritation to eyes, skin and respiratory system. Avoid liquid, mist and vapor contact. Harmful or fatal if swallowed. Aspiration hazard, can enter lungs and cause damage. May cause irritation or be harmful if inhaled or absorbed through the skin. Flammable Liquid. Vapors may explode.

III. HAZARDOUS INGREDIENTS

Component	CAS No.	Concentration (%)
Ethylbenzene	100-41-4	2 - 35%
Hexane Isomers		1 - 4%
1,2,4 Trimethylbenzene	95-63-6	10 - 15%
Xylene	1330-20-7	60 - 95%

IV. PHYSICAL DATA

Boiling Point: 280°F
Melting Point: not applicable
Vapor Density (air=1): 3.7
Specific Gravity: 0.86 @ 60°F
Vapor Pressure: 0.4 psi @ 100°F
Percent Volatile: essentially 100%
Solubility in Water: Negligible (<0.1%)
Appearance and Odor: Clear, colorless liquid with sweet aromatic odor

V. FIRE AND EXPLOSION HAZARD DATA

Flash Point: 80 - 90°F
Autoignition Temperature: 870-980°F
Flammability Limits in Air
Lower Explosive Limit: 1.0%
Upper Explosive Limit: 7.0%
NFPA Classification
Health: Moderate (2)
Reactivity: Stable (0)
Fire: High (3)
Specific Hazard: not applicable

Material Safety Data Sheet

Kermac Mineral Spirits

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Calumet Lubricants Company
2780 Waterfront Pkwy E. Suite 200
Indianapolis, IN 46214

COMPANY CONTACT: Jennifer Hall
TELEPHONE NUMBER: (318)949-2421

EMERGENCY TELEPHONE NUMBERS
Calumet (318)949-2421 Normal Business Hrs.
Chemtrec (800)424-9300 After Business Hrs.

PRODUCT NAME: KERMAC Mineral Spirits
PRODUCT CODE: 0410-00
CHEMICAL NAME: Medium Aliphatic Solvent Naphtha
CAS NUMBER: 64742-88-7
CHEMICAL FAMILY: Petroleum Hydrocarbon Distillate
CHEMICAL FORMULA: C8-C14

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION PERCENT BY VOLUME
Medium Aliphatic Solvent Naphtha CAS NUMBER: 64742-88-7	Stoddard Solvent TWA-100ppm	100.0

3. HAZARDS IDENTIFICATION

********** EMERGENCY OVERVIEW **********
* WARNING: Combustible Liquid and Vapor. Harmful if inhaled and may cause *
* delayed lung injury. Can cause nervous system depression. Aspiration *
* hazard if swallowed - can enter lungs and cause damage. Keep away from *
* heat, sparks, and flame. Avoid breathing vapor. Use ventilation *
* adequate to keep vapor below recommended exposure limits. Avoid contact *
* with eyes, skin and clothing. Wash thoroughly after handling. *
****

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY
Skin

EYES
Tests on similiar materials suggest acute irritation.

SKIN
Tests on similiar materials indicate acute irritation upon short-term exposure and chronic dermatitis on prolonged contact.

INGESTION
Acute aspiration hazard. Tests on similiar materials indicate possibility of the following symptoms: headache, nausea, droweiness, fatigue, pneumonitis, pulmonary adema, central nervous system depression, convulsions, and loss of consciousness.

INHALATION
Tests on similiar materials indicate the possibility of the following symptoms: headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions, and loss of consciousness.

CHRONIC (CANCER INFORMATION)
Prolonged and/or repeated contact with this material may produce skin and eye irritation.
Carcinogen listed by : National Toxicology Program (NO)

Revision Date: 06/07/95

FROM :CALUMET LUBRICANTS TO : 318 425 0435 1996.05-28 11:05AM #771 P.03/18

9. PHYSICAL AND CHEMICAL PROPERTIES - Continued

BASIC PHYSICAL PROPERTIES
PHYSICAL STATE: Liquid
BOILING POINT: IBP >300°F IBP >149°C
MELTING POINT: N/A°F N/A°C
VAPOR PRESSURE: Reid @ 100F: 0.3 psu
VAPOR DENSITY (AIR=1): 5 (air = 1)
SPECIFIC GRAVITY: 0.76 Water = 1
MOLECULAR WEIGHT: 150.00
PACKING DENSITY: N/A
SOLUBILITY (H2O): negligible in water
PERCENT VOLATILES: 100
VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT: 100.0 %
EVAPORATION RATE: 8 times slower than ethyl ether
pH: essentially neutral
VISCOSITY: 1.2 cst @ 100°F

Physical data may vary slightly to meet specifications.

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID (STABILITY)
Sources of ignition.

INCOMPATIBLE MATERIALS
Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS
Incomplete combustion may produce fumes, smoke, carbon monoxide and other asphyxiants.

HAZARDOUS POLYMERIZATION: will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

EYE EFFECTS
Irritation on contact.

SKIN EFFECTS
May cause irritation or dematitis with prolonged and repeated contact.

ACUTE ORAL EFFECTS
Tests on similiar materials indicate an order of acute oral toxicity.

ACUTE INHALATION EFFECTS
Acute toxicity expected on inhalation.

This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA.

12. ECOLOGICAL INFORMATION

NO DATA GIVEN

13. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. If "used", RCRA criteria must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Recommend recycling.

Revision Date: 06/07/95

FROM :CALUMET LUBRICANTS TO : 918 425 0435 1996.05-28 11:07AM #771 P.06/18

M A T E R I A L S A F E T Y D A T A S H E E T

Date of prep: 20 Dec 1995 Manufacturer product number: PT-426SEMICLEAR
Date printed: 08:54:00 01 Apr 1996

For coatings, resins and related materials.

SECTION I

Health Hazard	2	0 - Minimal Hazard
Flammability Hazard	3	1 - Slight Hazard
Reactivity Hazard	0	2 - Moderate Hazard
Max. Personal Protection	X	3 - Serious Hazard
		4 - Severe Hazard

Manufacturer name: PRODUCTS/TECHNIQUES, INC.
Street address: 3271 SO. RIVERSIDE AVE., RIALTO, CA. 92376
Telephone: 909-877-3951
Emergency telephone #: CHMTRC 800-424-9300 (INT'L) 202-483-7616
Item Group: FORMULATIONS
Manufacturers code identification: PT-426SEMICLEAR
Trade name and color: MIL-C-22750D EPOXY AIR DRY SEMI GLOSS CLEAR

SECTION II - HAZARDOUS INGREDIENTS

Ingredient / Footnotes	% by wt	ACGIH TLV TWA	ACGIH ppm STEL	ACGIH TLV mg/M3	OSHA PEL TWA	OSHA ppm STEL	OSHA TLV mg/M3	Vapor Pres
BISPHENOL A DIGLYCIDYL EPOXY RESIN CAS# 25068-38-6	43.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOLUENE CAS# 108-88-3 1 3 MOLECULAR WEIGHT: 92	14.58	100	150	N/A	100	150	N/A	24 @ 20 C.
METHYL ETHYL KETONE (MEK) CAS# 78-93-3 3 MOLECULAR WEIGHT: 72	13.23	200	300	N/A	200	300	N/A	70 @ 20 C.
ETHYL ACETATE CAS# 141-78-6 MOLECULAR WEIGHT: 88	10.39	400	N/A	N/A	400	N/A	N/A	76 @ 20 C
N-BUTANOL (nBUT) CAS# 71-36-3 3 MOLECULAR WEIGHT: 74	7.87	C50S	N/A	N/A	C50S	N/A	N/A	4.4 @ 20 C
ADDITIVE (CONTAINS XYLENE) CAS# MIXTURE 3	0.22	100	150	N/A	100	150	N/A	3.5 @ 20 C

ADDITIVE (CONTAINS 33% XYLENE CAS#1330-20-7) CAS# MIXTURE 3		0.27	100	150	N/A	100	150	N/A	7
MODIFIED DIMETHYLPOLYSILOXANE COPOLYMER CAS# TRADE SECRET		0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
XYLENE CAS# 1330-20-7 3 MOLECULAR WEIGHT: 106		0.13	100	150	N/A	100	150	N/A	6.6 @ 20 C
PM ACETATE (PMA) CAS# 108-65-6 MOLECULAR WEIGHT: 132		2.62	N/E	N/E	N/A	N/E	N/E	N/A	3.7 @ 20 C
FUMED SILICA CAS# 7631-86-9		6.97	N/A	N/A	10*	N/A	N/A	10*	N/A

Footnotes:
1 - WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. P.T.I. Prop. 65 Label #1
3 - Shown on S.A.R.A. 313 list

Other:

NOTICE: THIS PRODUCT IS SOLD TO YOU AS THE SOLE USER. THIS PRODUCT IS SOLD AS AN "INDUSTRIAL PRODUCT ONLY". THIS PRODUCT IS NOT INTENDED NOR IS IT CLASSIFIED AS A CONSUMER COMMODITY. THIS PRODUCT IS NOT TO BE USED BY THE GENERAL PUBLIC.

C: CEILING
S: SKIN
N/A: NOT APPLICABLE
N/E: NOT ESTABLISHED
N/AV: NOT AVAILABLE
N/D: NOT DETERMINED

*: AS TOTAL DUST

ALL COMPONENTS ARE TSCA LISTED.

NOTE: ALL PERCENT BY WEIGHTS AND VOC'S ARE APPROXIMATE AND MAY VARY SLIGHTLY FROM BATCH TO BATCH, AND DUE TO SOLVENT EVAPORATION, AFTER EACH USE. THE VOC'S ARE "AS PACKAGED MATERIAL."

SECTION III - PHYSICAL DATA

Boiling range: 168-302 F Vapor density: HEAVIER (Air=1)
APPROX VAPOR PRESSURE mmHg @ 68F: N/E

Evaporation rate: SLOWER (N-BUTYL ACETATE=1)

Percent volatile by volume: 60.71

Weight per gallon: 8.60 +/- 0.50 Specific gravity: 1.03

CALCULATED VOC MATERIAL.....: 465 g/l 3.88#/gal
CALCULATED VOC LESS WATER AND EXEMPT COMPOUNDS: 465 g/l
MIX RATIO COMPONENT-1: 1 MIX RATIO BY VOLUME
MIX RATIO COMPONENT-2: 1
MIX RATIO THINNER....: 0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY.: FLAMMABLE LIQUID
FLASH POINT: (MEK) 24 DEG. F TCC
Lower and Upper Explosive Limits: 1.0 - 13.1

OSHA CATEGORY: Flammable Liquid - Class IB
EXTINGUISHING MEDIA:
EXTINGUISH WITH DRY CHEMICAL, CO2, OR A UNIVERSAL TYPE FOAM.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAMES, OR OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK, OR EXPLODE. MAY CREATE VAPOR/AIR EXPLOSION HAZARD INDOORS, OUTDOORS, OR SEWERS. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT. STOP ALL SPILLS OR RELEASES IF IT CAN BE DONE WITHOUT RISK OR INJURY. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK OR INJURY. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAMES. AVOID SPREADING BURNING LIQUID WITH WATER THAT IS USED FOR COOLING PURPOSES.

SECTION V - HEALTH HAZARD DATA

Date Prepared: 1/11/95 Prepared By: JHTORN

SECTION I

MANUFACTURER'S NAME: Dexter Crown Metro Aerospace Coatings
STREET ADDRESS : PO Box 5695 Echelon,Donaldson Ctr, Greenville, SC 29606
TELEPHONE : (803) 277-1870 Night: (803) 277-1870
MANUFACTURER'S CODE: EC-139
TRADE NAME : MIL-P-23377F CURING SOLN

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
ETHYL BENZENE CAS: 100-41-4	10 - 20%	7.1
OSHA Exposure Limits PEL/TWA: 100 PPM STEL: 125 PPM PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 25 PPM TLV/STEL: 100 PPM TWA-C: UK Mfr's: UK
XYLENE CAS: 1330-20-7	60 - 70%	21.0
OSHA Exposure Limits PEL/TWA: 100 (ppm) STEL: 150 (ppm) PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 100 (ppm) TLV/STEL: 150 (ppm) TWA-C: UK Mfr's: UK
ISOPROPYL ALCOHOL CAS: 67-63-0	< 10%	33.0
OSHA Exposure Limits PEL/TWA: 400 (ppm) STEL: 500 (ppm) PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 400 (ppm) TLV/STEL: 500 (ppm) TWA-C: UK Mfr's: UK

SECTION III - PHYSICAL PROPERTIES & FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR EC-139 = 80 Deg. F Setaflash CC LEL: 1.00
BOILING RANGE = 180 to 288 Deg. F.
OSHA Classification = Flammable Liquid - Class IC
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 7.386 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 6.1 pounds per gallon less water.

SECTION IV - HEALTH INFORMATION

ACUTE: Over exposure by inhalation may cause irritation of the respiratory tract, headache, dizziness, or drowsiness.
SKIN OR EYE CONTACT: Irritant to the eyes and skin.
EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Remove from exposure. EYE CONTACT: Flush immediately with large amounts of water for at least 15 minutes. SKIN CONTACT: Remove contaminated clothing and wash skin

PROPRIETARY Julie H. Tillo

DATE REC'D 9-20-95
ORDER NO. 2384
CHARGE TO.
REC'D BY. Kent Brunner

MATERIAL SAFETY DATA SHEET
Courtaulds Aerospace

Printed : 03/27/95
Revised : 05/08/92

SECTION I - PRODUCT IDENTIFICATION

anufacturer: COURTAULDS AEROSPACE
1608 FOURTH STREET
BERKELEY CA 94710

Information Phone: (818) 549-7823
Emergency Phone: (800) 228-5635
CHEMTREC Phone: (800) 424-9300

oduct Class: EPOXY
ade Name : BMS 10-11U TY I GR A CLASS A
roduct Code : 515K011
A.S. Number: NA-MIXTURE
O.T. Hazard Class : Flammable liquid
oper Shipping Name: Paint

! Hazard Ratings: Health - 2
! none -> extreme Fire - 3
! 0 ---> 4 Reactivity - 0
!
! Personal Protection - H
UN #: UN1263

SECTION II - INGREDIENTS

Ingredients	CAS #	Weight %	--- Exposure Limits --- ACGIH/TLV	OSHA/PEL	VP mm HG
EPOXY RESIN	037312-33-7	25.	Undetermined		0
BUTYL ACETATE	000123-86-4	15.	150 ppm STEL= 200	150 ppm 200	8.4
METHYL ISOBUTYL KETONE	000108-10-1	10.	50 ppm STEL= 75	50 ppm 75	15
XYLENE	001330-20-7	10.	100 ppm STEL= 150	100 ppm 150	10
ETHYL BENZENE	000100-41-4	< 5.	100 ppm STEL= 125	100 ppm 125	7.1
TITANIUM DIOXIDE @	013463-67-7	15.	10 mg/M3	10 (TOTAL) mg/M3	0
CALCIUM CHROMATE	013765-19-0	5.	.05,A1 AS CR mg/M3	.10 mg/M3	0
NON-HAZARDOUS ADDITIVES, RESIN AND PIGMENTS	TRADE SECRET	< 5.	Undetermined		0
TALC NON-ASBESTIFROM @	014807-96-6	15.	2 (RESPIR.) mg/M3	2 (RESPIR.) mg/M3	0

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory.

@ This material is listed as required by 29CFR 1910-1200 because it appeares on an airborn contaminants list. However, in this product it is in a fully encapsulated form and therefore is not hazardous to user under normal circumstances. If the cured product is sanded or ground so as to release respirable particles, suitable respiratory protection should be used.

PERCENT BY WEIGHT:
TO NEAREST 5% FOR SUBSTANCES 5-95%
<5.0% FOR SUBSTANCES 1.0-5.0%

S=SKIN; C=CEILING LIMIT
NE=NOT ESTABLISHED
NA=NOT APPLICABLE

* -> These items are listed on the SARA TITLE III Section 313 inventory

COURTAULDS AEROSPACE
Material Safety Data Sheet for
BMS 10-11U TY I GR.A CLASS A (515K011).

SECTION III - PHYSICAL DATA

oiling Range: 240 - 500 Deg. F
ap. Rate: Slower than n-Butyl Acetate
latiles volume: 57.2 %
Vapor Density: Heavier than Air.
Liquid Density: Heavier than Water.
Wgt per gallon: 10.86 Pounds.
Spec. Gravity: 1.30
ppearance: LIQUID, SOLVENT ODOR
V.O.C. GR/L : 639 MIXED WITH 910-012 @ 1/1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

ammability Class: FLAMMABLE Flash Point: 60 F Setaflash LEL: 1. %
XTINGUISHING MEDIA:
EXTINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM).
PECIAL FIRE FIGHTING PROCEDURES:
WATER SPRAY MAY BE INEFFECTIVE. COOL FIRE EXPOSED CONTAINERS WITH WATER. FOG NOZZLES ARE PREFERRABLE. WEAR NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

NUSUAL FIRE & EXPLOSION HAZARDS:
VAPORS MAY ACCUMULATE IN INADEQUATELY VENTILATED OR CONFINED AREAS. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL LONG DISTANCES. FLASHBACK OR FLAME TO THE HANDLING SITE MAY OCCUR. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

SECTION V - HEALTH HAZARD DATA

ERMISSIBLE EXPOSURE LEVEL
SEE SECTION II (NOT ESTABLISHED FOR PRODUCT).
FFECT OF OVEREXPOSURE:

NHALATION
EXPOSURE MAY CAUSE NASAL AND RESPIRATORY IRRITATION AND ACUTE CENTRAL NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION OR UNCONSCIOUSNESS. ASPHYXIATION MAY RESULT FROM BREATHING OXYGEN DEFICIENT AIR.
KIN CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION, DEFATTING OR DERMATITIS.
PROLONGED OR REPEATED SKIN CONTACT MAY ALSO RESULT IN SKIN SENSITIZATION IN SOME INDIVIDUALS.
YE CONTACT:
CAUSES IRRITATION.
INGESTION:
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.
ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

Material Safety Data Sheet

Date Prepared: 7/29/97 Prepared By: KRAWAU

SECTION I

MANUFACTURER'S NAME: The Dexter Corporation
STREET ADDRESS : 1 East Water Street Waukegan, Illinois 60085
TELEPHONE : (847) 623-4200 Night: (847) 623-4200
MANUFACTURER'S CODE: X-395
TRADE NAME : ACTIVATOR FOR 454-4-5 IFT

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
DIMETHYL AMINMETHYLPHENOL MIXTURE		
CAS: MIXTURE	< 10%	0.01

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: UK	TLV/TWA: UK
STEL: UK	TLV/STEL: UK
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

TOLUENE		
CAS: 108-88-3	60 - 70%	22.0

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 100 (ppm)	TLV/TWA: SKIN 50 PPM
STEL: 150 (ppm)	TLV/STEL: 150 (ppm)
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

*ISOBUTANOL		
CAS: 78-83-1	30 - 40%	8.0

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 50 (ppm)	TLV/TWA: 50 (ppm)
STEL: UK	TLV/STEL: UK
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

* See Sections VIII & X for further safety and environmental information.

SECTION III - PHYSICAL PROPERTIES + FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR X-395 = 40 Deg. F Setaflash CC LEL: 1.20
BOILING RANGE = 226 to 500 Deg. F.
OSHA Classification = Flammable Liquid - Class IB
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 7.146 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 6.5 pounds per gallon less water.

SECTION IV - HEALTH INFORMATION

ACUTE: Over exposure by inhalation may cause irritation of the respiratory tract, headache, dizziness, or drowsiness.
SKIN OR EYE CONTACT: Irritant to the eyes and skin, and skin sensitivity.
EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Remove from exposure. EYE CONTACT: Flush immediately with large amounts of running water for at least 15 minutes. SKIN CONTACT: Remove contaminated clothing and wash skin with soap and water. INGESTION: Drink water.
If necessary, consult a physician for any of these conditions.
ROUTES OF ENTRY: Product may be absorbed thru the following ways: eyes, inhalation, skin, & ingestion.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown at this time.
CHRONIC HEALTH EFFECTS: Those hazardous materials listed in Section II may affect the following organs: RESPIRATORY TRACT- CENTRAL NERVOUS SYSTEM- ALLERGIC RESPIRATORY/SKIN REACTION- CORNEAL INJURY- KIDNEYS- LIVER- ~~REPRODUCTIVE SYSTEM- CARDIAC SENSITIZATION.~~

SECTION V - REACTIVITY DATA

STABILITY: Stable. HAZARDOUS DECOMPOSITION BY-PRODUCTS: Fumes may contain carbon monoxide and oxides of nitrogen. May produce hazardous fumes when heated to decomposition as in welding.

SECTION VI - SPILL OR LEAK PROCEDURES

Remove all sources of ignition, avoid breathing vapors, ventilate area, and remove with inert absorbant and non-sparking tools. Dispose of in accordance with local, state, and federal regulations. Before attempting to clean up, see Section II.

SECTION VII - PRECAUTIONS IN HANDLING

VENTILATION: Provide general dilution or local exhaust ventilation to keep TWA and LEL below acceptable limits and to remove decomposition products.

RESPIRATORY PROTECTION: Where general dilution or local exhaust fails to adequately dilute the TWA/PEL of the material, then respiratory protection should be used as follows: Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator approved by NIOSH/OSHA when exposed. An air line respirator (TC19C NIOSH/MSHA) is recommended.

PROTECTIVE EQUIPMENT: Chemical resistant gloves are required for prolonged or repeated contact. Use safety eyeware designed to protect against splash of liquids.

Do not take internally. Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Make sure the drum is completely empty before attempting to weld or braze. The drum should be industrially cleaned prior to reuse. Do not flame cut, braze, or weld without a NIOSH approved respirator or appropriate ventilation.

Material Safety Data Sheet

Date Prepared: 4/02/97 Prepared By: KRAWAU

SECTION I

MANUFACTURER'S NAME: The Dexter Corporation
STREET ADDRESS : 1 East Water Street Waukegan, Illinois 60085
TELEPHONE : (847) 623-4200 Night: (847) 623-4200
MANUFACTURER'S CODE: EC-117
TRADE NAME : BMS 10-11, TYPE I

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
DIMETHYL AMINMETHYLPHENOL MIXTURE		
CAS: MIXTURE	< 10%	0.01
OSHA Exposure Limits: PEL/TWA: UK; STEL: UK; PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: UK; TLV/STEL: UK; TWA-C: UK; Mfr's: UK
ETHYL BENZENE		
CAS: 100-41-4	10 - 20%	7.1
OSHA Exposure Limits: PEL/TWA: 100 PPM; STEL: 125 PPM; PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 100 PPM; TLV/STEL: 125 PPM; TWA-C: UK; Mfr's: UK
XYLENE		
CAS: 1330-20-7	40 - 50%	21.0
OSHA Exposure Limits: PEL/TWA: 100 (ppm); STEL: 150 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 100 (ppm); TLV/STEL: 150 (ppm); TWA-C: UK; Mfr's: UK
ISOPROPYL ALCOHOL		
CAS: 67-63-0	30 - 40%	33.0
OSHA Exposure Limits: PEL/TWA: 400 (ppm); STEL: 500 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 400 (ppm); TLV/STEL: 500 (ppm); TWA-C: UK; Mfr's: UK

SECTION III - PHYSICAL PROPERTIES & FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR EC-117 = 64 Deg. F Setaflash CC LEL: 1.00
BOILING RANGE = 180 to 300 Deg. F.
OSHA Classification = Flammable Liquid - Class IB
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 7.015 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 6.6 pounds per gallon less water.

Material Safety Data Sheet

Date Prepared: 6/27/95 Prepared By: VAWWAU

SECTION I

MANUFACTURER'S NAME: The Dexter Corporation
STREET ADDRESS : One East Water Street Waukegan, Illinois 60085
TELEPHONE : (708) 623-4200 Night: (708) 623-4200
MANUFACTURER'S CODE: 454-4-1
TRADE NAME : ~~BMS 10-20 II A IFT~~

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
CRYSTALLINE SILICA (CRISTOBALITE)		
CAS: 14464-46-1	< 10%	UK

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 0.05 mg/m3	TLV/TWA: 0.05 mg/m3
STEL: UK	TLV/STEL: UK
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

N-BUTYL ALCOHOL		
CAS: 71-36-3	< 10% ✓	4.4

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: UK SKIN	TLV/TWA: UK SKIN
STEL: UK	TLV/STEL: UK
PEL/Ceiling: 50 (ppm)	TWA-C: 50 (ppm)
Peak: UK	Mfr's: UK

TOLUENE		
CAS: 108-88-3	10 - 20% ✓	22.0

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 100 (ppm)	TLV/TWA: SKIN 50 PPM
STEL: 150 (ppm)	TLV/STEL: 150 (ppm)
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

XYLENE		
CAS: 1330-20-7	< 10% ✓	21.0

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 100 (ppm)	TLV/TWA: 100 (ppm)
STEL: 150 (ppm)	TLV/STEL: 150 (ppm)
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

CYCLOHEXANONE		
CAS: 108-94-1	10 - 20% ✓	3.4

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 25 (ppm) SKIN	TLV/TWA: 25 (ppm) SKIN
STEL: UK	TLV/STEL: UK
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

ETHYL ETHYL KETONE
CAS: 78-93-3 10 - 20% 70.2
OSHA Exposure Limits
PEL/TWA: 200 (ppm)
STEL: 300 (ppm)
PEL/Ceiling: UK
Peak: UK
ACGIH Exposure Limits
TLV/TWA: 200 (ppm)
TLV/STEL: 300 (ppm)
TWA-C: UK
Mfr's: UK

ETHYL ISOBUTYL KETONE
CAS: 108-10-1 < 10% 15.0
OSHA Exposure Limits
PEL/TWA: 50 (ppm)
STEL: 75 (ppm)
PEL/Ceiling: UK
Peak: UK
ACGIH Exposure Limits
TLV/TWA: 50 (ppm)
TLV/STEL: 75 (ppm)
TWA-C: UK
Mfr's: UK

OPROPYL ALCOHOL
CAS: 67-63-0 < 10% 33.0
OSHA Exposure Limits
PEL/TWA: 400 (ppm)
STEL: 500 (ppm)
PEL/Ceiling: UK
Peak: UK
ACGIH Exposure Limits
TLV/TWA: 400 (ppm)
TLV/STEL: 500 (ppm)
TWA-C: UK
Mfr's: UK

% CHROMIUM VI IN NON-VOLATILES
CAS: 7440-47-3 1- 2% UK
OSHA Exposure Limits
PEL/TWA: UK
STEL: UK
PEL/Ceiling: 0.1 (ppm)
Peak: UK
ACGIH Exposure Limits
TLV/TWA: 0.05 (mg/m3)
TLV/STEL: UK
TWA-C: UK
Mfr's: UK

% ZINC IN NON-VOLATILES
CAS: 7440-66-6 10- 11% N/A
OSHA Exposure Limits
PEL/TWA: UK
STEL: UK
PEL/Ceiling: UK
Peak: UK
ACGIH Exposure Limits
TLV/TWA: UK
TLV/STEL: UK
TWA-C: UK
Mfr's: UK

See Sections VIII & X for further safety and environmental information.

SECTION III - PHYSICAL PROPERTIES + FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR 454-4-1 = 21 Deg. F Setaflash CC LEL: 1.10
BOILING RANGE = 175 to 320 Deg. F.
OSHA Classification = Flammable Liquid - Class IB
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 9.258 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 5.1 pounds per gallon less water.

Date Prepared: 7/29/97 Prepared By: KRAWAU

SECTION I

MANUFACTURER'S NAME: The Dexter Corporation
STREET ADDRESS : 1 East Water Street Waukegan, Illinois 60085
TELEPHONE : (847) 623-4200 Night: (847) 623-4200
MANUFACTURER'S CODE: 454-4-5
TRADE NAME : BMS 10-20 II B IFT

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
*CRYSTALLINE SILICA (CRISTOBALITE)		
CAS: 14464-46-1	< 10%	UK
OSHA Exposure Limits: PEL/TWA: 0.05 mg/m3; STEL: UK; PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 0.05 mg/m3; TLV/STEL: UK; TWA-C: UK; Mfr's: UK
BUTYL ACETATE		
CAS: 123-86-4	10 - 20%	8.0
OSHA Exposure Limits: PEL/TWA: 150 (ppm); STEL: 200 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 150 (ppm); TLV/STEL: 200 (ppm); TWA-C: UK; Mfr's: UK
TOLUENE		
CAS: 108-88-3	10 - 20%	22.0
OSHA Exposure Limits: PEL/TWA: 100 (ppm); STEL: 150 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: SKIN 50 PPM; TLV/STEL: 150 (ppm); TWA-C: UK; Mfr's: UK
XYLENE		
CAS: 1330-20-7	< 10%	21.0
OSHA Exposure Limits: PEL/TWA: 100 (ppm); STEL: 150 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 100 (ppm); TLV/STEL: 150 (ppm); TWA-C: UK; Mfr's: UK
CYCLOHEXANONE		
CAS: 108-94-1	10 - 20%	3.4
OSHA Exposure Limits: PEL/TWA: 25 (ppm) SKIN; STEL: UK; PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 25 (ppm) SKIN; TLV/STEL: UK; TWA-C: UK; Mfr's: UK

METHYL ISOBUTYL KETONE
CAS: 108-10-1 < 10% 15.0

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: 50 (ppm)	TLV/TWA: 50 (ppm)
STEL: 75 (ppm)	TLV/STEL: 75 (ppm)
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

*% CHROMIUM VI IN NON-VOLATILES
CAS: 7440-47-3 1- 2% UK

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: UK	TLV/TWA: 0.05 (mg/m3)
STEL: UK	TLV/STEL: UK
PEL/Ceiling: 0.1 (ppm)	TWA-C: UK
Peak: UK	Mfr's: UK

% ZINC IN NON-VOLATILES
CAS: 7440-66-6 10- 11% N/A

OSHA Exposure Limits	ACGIH Exposure Limits
PEL/TWA: UK	TLV/TWA: UK
STEL: UK	TLV/STEL: UK
PEL/Ceiling: UK	TWA-C: UK
Peak: UK	Mfr's: UK

* See Sections VIII & X for further safety and environmental information.

SECTION III - PHYSICAL PROPERTIES + FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR 454-4-5 = 40 Deg. F Setaflash CC LEL: 1.10
BOILING RANGE = 200 to 343 Deg. F.
OSHA Classification = Flammable Liquid - Class IB
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 9.433 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 5.3 pounds per gallon less water.

SECTION IV - HEALTH INFORMATION

ACUTE: Over exposure by inhalation may cause irritation of the respiratory tract, headache, dizziness, or drowsiness.
SKIN OR EYE CONTACT: Irritant to the eyes and skin.
EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Remove from exposure. EYE CONTACT: Flush immediately with large amounts of running water for at least 15 minutes. SKIN CONTACT: Remove contaminated clothing and wash skin with soap and water. INGESTION: Drink water.
If necessary, consult a physician for any of these conditions.
ROUTES OF ENTRY: Product may be absorbed thru the following ways: eyes, inhalation, skin, & ingestion.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown at this time.
CHRONIC HEALTH EFFECTS: Those hazardous materials listed in Section II may affect the following organs: RESPIRATORY TRACT- CENTRAL NERVOUS SYSTEM- KIDNEYS- LIVER- REPRODUCTIVE SYSTEM- CARDIAC SENSITIZATION- BLOOD- CORNEAL INJURY.

Material Safety Data Sheet

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Date Prepared: 11/14/96 Prepared By: MMGWAU

SECTION I

MANUFACTURER'S NAME: The Dexter Corporation
STREET ADDRESS : 1 East Water Street Waukegan, Illinois 60085
TELEPHONE : (847) 623-4200 Night: (847) 623-4200
MANUFACTURER'S CODE: 446-21-7038
TRADE NAME : HS EPOXY BLACK/595-17038

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
*CRYSTALLINE SILICA (QUARTZ) CAS: 14808-60-7	20 - 30% ✓	UK
OSHA Exposure Limits PEL/TWA: 0.1 mg/m3 STEL: UK PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 0.1 mg/m3 TLV/STEL: UK TWA-C: UK Mfr's: UK
METHYL AMYL KETONE CAS: 110-43-0	< 10% ✓	2.14
OSHA Exposure Limits PEL/TWA: 100 (ppm) STEL: UK PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 50 (ppm) TLV/STEL: UK TWA-C: UK Mfr's: UK
1-METHOXY-2-PROPANOL CAS: 107-98-2	< 10% ✓	12.5
OSHA Exposure Limits PEL/TWA: 100 (ppm) STEL: 150 (ppm) PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 100 (ppm) TLV/STEL: 150 (ppm) TWA-C: UK Mfr's: UK
XYLENE CAS: 1330-20-7	< 10% ✓	21.0
OSHA Exposure Limits PEL/TWA: 100 (ppm) STEL: 150 (ppm) PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 100 (ppm) TLV/STEL: 150 (ppm) TWA-C: UK Mfr's: UK
PSEUDOCUMENE CAS: 95-63-6	< 10% ✓	UK
OSHA Exposure Limits PEL/TWA: 25 PPM STEL: UK PEL/Ceiling: UK Peak: UK		ACGIH Exposure Limits TLV/TWA: 25 PPM TLV/STEL: UK TWA-C: UK Mfr's: UK

METHYL ETHYL KETONE		
CAS: 78-93-3	< 10%	70.2
OSHA Exposure Limits		ACGIH Exposure Limits
PEL/TWA: 200 (ppm)		TLV/TWA: 200 (ppm)
STEL: 300 (ppm)		TLV/STEL: 300 (ppm)
PEL/Ceiling: UK		TWA-C: UK
Peak: UK		Mfr's: UK

* See Sections VIII & X for further safety and environmental information.

SECTION III - PHYSICAL PROPERTIES + FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR 446-21-7038 = 23 Deg. F Setaflash CC LEL: 1.10
BOILING RANGE = 168 to 999 Deg. F.
OSHA Classification = Flammable Liquid - Class IB
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 10.344 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 3.2 pounds per gallon less water.

SECTION IV - HEALTH INFORMATION

ACUTE: Over exposure by inhalation may cause irritation of the respiratory tract, headache, dizziness, or drowsiness.
SKIN OR EYE CONTACT: Irritant to the eyes and skin.
EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Remove from exposure. EYE CONTACT: Flush immediately with large amounts of running water for at least 15 minutes. SKIN CONTACT: Remove contaminated clothing and wash skin with soap and water. INGESTION: Drink water.
If necessary, consult a physician for any of these conditions.
ROUTES OF ENTRY: Product may be absorbed thru the following ways: eyes, inhalation, skin, & ingestion.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown at this time.
CHRONIC HEALTH EFFECTS: Those hazardous materials listed in Section II may affect the following organs: RESPIRATORY TRACT- CENTRAL NERVOUS SYSTEM- KIDNEYS- LIVER- CARDIAC SENSITIZATION.

SECTION V - REACTIVITY DATA

STABILITY: Stable. HAZARDOUS DECOMPOSITION BY-PRODUCTS: Fumes may contain carbon monoxide and oxides of nitrogen. May produce hazardous fumes when heated to decomposition as in welding.

SECTION VI - SPILL OR LEAK PROCEDURES

Remove all sources of ignition, avoid breathing vapors, ventilate area, and remove with inert absorbant and non-sparking tools. Dispose of in accordance with local, state, and federal regulations. Before attempting to clean up, see Section II.

Material Safety Data Sheet

Date Prepared: 11/14/96 Prepared By: MMGWAU

SECTION I

MANUFACTURER'S NAME: The Dexter Corporation
STREET ADDRESS : 1 East Water Street Waukegan, Illinois 60085
TELEPHONE : (847) 623-4200 Night: (847) 623-4200
MANUFACTURER'S CODE: X-530
TRADE NAME : CATALYST COMPONENT, HS EPOXY

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	Weight Percent	Vapor Press. mm Hg @ 20C
DIMETHYL AMINMETHYLPHENOL MIXTURE		
CAS: MIXTURE	< 10%	0.01
OSHA Exposure Limits: PEL/TWA: UK; STEL: UK; PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: UK; TLV/STEL: UK; TWA-C: UK; Mfr's: UK
NORMAL BUTYL ALCOHOL		
CAS: 71-36-3	10 - 20%	4.4
OSHA Exposure Limits: PEL/TWA: UK SKIN; STEL: UK; PEL/Ceiling: 50 (ppm); Peak: UK		ACGIH Exposure Limits: TLV/TWA: UK SKIN; TLV/STEL: UK; TWA-C: 50 (ppm); Mfr's: UK
TOLUENE		
CAS: 108-88-3	10 - 20%	22.0
OSHA Exposure Limits: PEL/TWA: 100 (ppm); STEL: 150 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: SKIN 50 PPM; TLV/STEL: 150 (ppm); TWA-C: UK; Mfr's: UK
1-METHOXY-2-PROPANOL		
CAS: 107-98-2	10 - 20%	12.5
OSHA Exposure Limits: PEL/TWA: 100 (ppm); STEL: 150 (ppm); PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: 100 (ppm); TLV/STEL: 150 (ppm); TWA-C: UK; Mfr's: UK
BENZYL ALCOHOL		
CAS: 100-51-6	10 - 20%	1
OSHA Exposure Limits: PEL/TWA: UK; STEL: UK; PEL/Ceiling: UK; Peak: UK		ACGIH Exposure Limits: TLV/TWA: UK; TLV/STEL: UK; TWA-C: UK; Mfr's: UK

SECTION III - PHYSICAL PROPERTIES + FIRE AND EXPLOSION HAZARDS

FLASHPOINT FOR X-530 = 45 Deg. F Setaflash CC LEL: 1.20
BOILING RANGE = 212 to 401 Deg. F.
OSHA Classification = Flammable Liquid - Class IB
VAPOR DENSITY: Heavier than air.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide.
WEIGHT BY VOLUME: 7.812 pounds per gallon
THEORETICAL VOLATILE ORGANIC CONTENT: 5.0 pounds per gallon less water.

SECTION IV - HEALTH INFORMATION

ACUTE: Over exposure by inhalation may cause irritation of the respiratory tract, headache, dizziness, or drowsiness.
SKIN OR EYE CONTACT: Irritant to the eyes and skin, and skin sensitivity.
EMERGENCY AND FIRST AID PROCEDURES: INHALATION: Remove from exposure. EYE CONTACT: Flush immediately with large amounts of running water for at least 15 minutes. SKIN CONTACT: Remove contaminated clothing and wash skin with soap and water. INGESTION: Drink water.
If necessary, consult a physician for any of these conditions.
ROUTES OF ENTRY: Product may be absorbed thru the following ways: eyes, inhalation, skin, & ingestion.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown at this time.
CHRONIC HEALTH EFFECTS: Those hazardous materials listed in Section II may affect the following organs: RESPIRATORY TRACT- CENTRAL NERVOUS SYSTEM- ALLERGIC RESPIRATORY/SKIN REACTION- CORNEAL INJURY- KIDNEYS- LIVER- BLOOD- REPRODUCTIVE SYSTEM- CARDIAC SENSITIZATION.

SECTION V - REACTIVITY DATA

STABILITY: Stable. HAZARDOUS DECOMPOSITION BY-PRODUCTS: Fumes may contain carbon monoxide and oxides of nitrogen. May produce hazardous fumes when heated to decomposition as in welding.

SECTION VI - SPILL OR LEAK PROCEDURES

Remove all sources of ignition, avoid breathing vapors, ventilate area, and remove with inert absorbant and non-sparking tools. Dispose of in accordance with local, state, and federal regulations. Before attempting to clean up, see Section II.

SECTION VII - PRECAUTIONS IN HANDLING

VENTILATION: Provide general dilution or local exhaust ventilation to keep TWA and LEL below acceptable limits and to remove decomposition products.

RESPIRATORY PROTECTION: Where general dilution or local exhaust fails to adequately dilute the TWA/PEL of the material, then respiratory protection should be used as follows: Do not breathe vapor or spray mist. Wear an appropriate, properly fitted respirator approved by NIOSH/OSHA when exposed. An air line respirator (TC19C NIOSH/MSHA) is recommended.

PROTECTIVE EQUIPMENT: Chemical resistant gloves are required for prolonged or repeated contact. Use safety eyeware designed to protect against splash of

M A T E R I A L S A F E T Y D A T A S H E E T

RANDOLPH PRODUCTS COMPANY
701 12TH STREET/ PO BOX 830
CARLSTADT, NJ 07072-0830

INFORMATION TELEPHONE NO.: 201-438-3700
EMERGENCY TELEPHONE NO.: 800-255-3924

PREPARATION DATE: 07/14/97 REPLACES DATE: 06/07/96 PREPARER: SU

SECTION I - PRODUCT IDENTIFICATION

~~16081 GRAY GLOSS COMP A MIL-C-22750 EPOXY POLYAMIDE TY1 REV D MIX 1:1~~
~~EPOXY GRAY GLOSS~~
22750--16081

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	OCCUPATIONAL EXPOSURE LIMITS (TLV-TWA)	(TLV-STEL)	SKIN DESIG-NATION	VAPOR PRESSURE mmHg 20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
FORMALDEHYDE	50-00-0	0.1%	1 PPM	2 PPM	NO	0.0	YES	YES
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	5%	25 PPM SKIN	NOT ESTABL.	YES	0.6	NO	YES
METHYL ETHYL KETONE	78-93-3	25%	200 PPM	300 PPM	NO	70.0	NO	YES
TOLUENE	108-88-3	10%	50 PPM	150 PPM	NO	22.0	NO	YES
XYLENES	1330-20-7	5%	100 PPM	150 PPM	NO	10.0	NO	YES

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1986 AND OF 40 CFR 372.

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING RANGE : 172- 343 F
ODOR : TYPICAL SOLVENT
APPEARANCE : THIN GRAY LIQUID
VOLATILE BY WEIGHT: 40.3%
VOLATILE BY VOLUME: 54.7%

VAPOR DENSITY : IS HEAVIER THAN AIR
EVAPORATION RATE: IS SLOWER THAN ETHE-
SOLUBILITY :
PRODUCT DENSITY : 9.5 LBS./GAL. (US)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

FLASH POINT: 21 F (SETAFLASH CLOSED CUP)
LEL: 1.
UEL: 12.

OSHA - FLAMMABLE LIQUID - CLASS IB
DOT - FLAMMABLE LIQUID OR SOLID

EXTINGUISHING MEDIA: CARBON DIOXIDE DRY CHEMICAL FOAM

M A T E R I A L S A F E T Y D A T A S H E E T

Date of prep: 19 Jul 1991 Manufacturer product number: PT-426#17038
Date printed: 09:10:44 17 Aug 1995

For coatings, resins and related materials.

SECTION I

Health Hazard	2	0 - Minimal Hazard
Flammability Hazard	3	1 - Slight Hazard
Reactivity Hazard	0	2 - Moderate Hazard
Max. Personal Protection	X	3 - Serious Hazard
		4 - Severe Hazard

Manufacturer name: PRODUCTS/TECHNIQUES, INC.
Street address: 3271 SO. RIVERSIDE AVE., RIALTO, CA. 92376
Telephone: 909-877-3951
Emergency telephone #: CHMTRC 800-424-9300 (INT'L) 202-483-7616
Item Group: FORMULATIONS
Manufacturers code identification: PT-426#17038
Trade name and color: MIL-C-22750D EPOXY AIR DRY GLOSS BLACK

SECTION II - HAZARDOUS INGREDIENTS

Ingredient / Footnotes	% by wt	ACGIH TLV TWA	ACGIH ppm STEL	ACGIH TLV mg/M3	OSHA PEL TWA	OSHA ppm STEL	OSHA TLV mg/M3	Vapor Pres
BISPHENOL A DIGLYCIDYL EPOXY RESIN CAS# 25068-38-6	47.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOLUENE CAS# 108-88-3 1 3 MOLECULAR WEIGHT: 92	15.92	100	150	N/A	100	150	N/A	24 @ 20 C.
ADDITIVE-GRINDING AGENT CAS# PROPRIETARY	0.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PROPYLENE GLYCOL MONOMETHYL ETHER CAS# 107-98-2 3 MOLECULAR WEIGHT: 90	17.95	100	150	N/A	100	150	N/A	10.9 @ 77F
CARBON BLACK PIGMENT CAS# 1333-86-4	8.44	N/A	N/A	3.5*	N/A	N/A	10*	N/A
METHYL ETHYL KETONE (MEK) CAS# 78-93-3 3 MOLECULAR WEIGHT: 72	3.16	200	300	N/A	200	300	N/A	70 @ 20 C.

ETHYL ACETATE CAS# 141-78-6 MOLECULAR WEIGHT: 88		3.16	400	N/A	N/A	400	N/A	N/A	76 @ 20 C
N-BUTANOL (nBUT) CAS# 71-36-3 MOLECULAR WEIGHT: 74	3	2.11	C50S	N/A	N/A	C50S	N/A	N/A	4.4 @ 20 C
SILICONE RESIN CAS# 110775-80-9		0.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ISOPROPANOL CAS# 67-63-0 MOLECULAR WEIGHT: 58	3	0.03	400	500	N/A	400	500	N/A	37 @ 20 C
ADDITIVE (CONTAINS XYLENE) CAS# MIXTURE	3	0.21	100	150	N/A	100	150	N/A	3.5 @ 20 C
MODIFIED DIMETHYLPOLYSILOXANE COPOLYMER CAS# TRADE SECRET		0.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
XYLENE CAS# 1330-20-7 MOLECULAR WEIGHT: 106	3	0.10	100	150	N/A	100	150	N/A	6.6 @ 20 C

Footnotes:
1 - WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
3 - Shown on S.A.R.A. 313 list

Other:

NOTICE: THIS PRODUCT IS SOLD TO YOU AS THE SOLE USER. THIS PRODUCT IS SOLD AS AN "INDUSTRIAL PRODUCT ONLY". THIS PRODUCT IS NOT INTENDED NOR IS IT CLASSIFIED AS A CONSUMER COMMODITY. THIS PRODUCT IS NOT TO BE USED BY THE GENERAL PUBLIC.

C: CEILING
S: SKIN
N/A: NOT APPLICABLE
N/E: NOT ESTABLISHED
N/AV: NOT AVAILABLE
N/D: NOT DETERMINED

*: AS TOTAL DUST

ALL COMPONENTS ARE TSCA LISTED.

NOTE: ALL PERCENT BY WEIGHTS AND VOC'S ARE APPROXIMATE AND MAY VARY SLIGHTLY FROM BATCH TO BATCH, AND DUE TO SOLVENT EVAPORATION, AFTER EACH USE. THE VOC'S ARE "AS PACKAGED MATERIAL."

SECTION III - PHYSICAL DATA

Boiling range: 168-286 F Vapor density: HEAVIER (Air=1)
APPROX VAPOR PRESSURE mmHg @ 68F: N/E

Evaporation rate: SLOWER (N-BUTYL ACETATE=1)

Percent volatile by volume: 53.32

Weight per gallon: 8.83 +/- 0.50 Specific gravity: 1.06

CALCULATED VOC MATERIAL.....: 530 g/l
CALCULATED VOC LESS WATER AND EXEMPT COMPOUNDS: 530 g/l
MIX RATIO COMPONENT-1: 1 MIX RATIO BY VOLUME
MIX RATIO COMPONENT-2: 1
MIX RATIO THINNER....: 0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY.: FLAMMABLE LIQUID
FLASH POINT: (MEK) 24 DEG. F TCC
Lower and Upper Explosive Limits: 1.0 - 12.0

OSHA CATEGORY: Flammable Liquid - Class IB
EXTINGUISHING MEDIA:
EXTINGUISH WITH DRY CHEMICAL, CO2, OR A UNIVERSAL TYPE FOAM.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
THIS MATERIAL IS FLAMMABLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAMES, OR OTHER SOURCES OF IGNITION (E.G. STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK, OR EXPLODE. MAY CREATE VAPOR/AIR EXPLOSION HAZARD INDOORS, OUTDOORS, OR SEWERS. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT. STOP ALL SPILLS OR RELEASES IF IT CAN BE DONE WITHOUT RISK OR INJURY. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK OR INJURY. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT

MATERIAL SAFETY DATA SHEET

American Mil Spec Supply
Mount Vernon, NY 10550

Telephone No: 914 699 9712
Emergency Phone: 800 424 9300

PRODUCT NAME: MIL-P-23377 TYPE 1 CLASS 1 COMP A

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	OCCUPATIONAL EXPOSURE LIMITS (TLV-TWA)	(TLV-STEL)	SKIN DESIG-NATION	VAPOR PRESSURE mmHg 20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
STRONTIUM CHROMATE	7789-06-2	20%	.05 mg/m3	NOT ESTABL.	NO	0.0	YES	YES
2-BUTOXYETHANOL (BCS)	111-76-2	5%	25 PPM SKIN	NOT ESTABL.	YES	0.6	NO	YES
METHYL ETHYL KETONE	78-93-3	20%	200 PPM	300 PPM	NO	70.0	NO	YES
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	5%	100 PPM	150 PPM	NO	10.9	NO	YES
TOLUENE	108-88-3	15%	50 PPM	150 PPM	NO	22.0	NO	YES
ALIPHATIC NAPTHA	64742-89-8	5%	300 PPM	400 PPM	NO	26.0	NO	NO
XYLENE	1330-20-7	5%	100 PPM	150 PPM	NO	10.0	NO	YES

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1986 AND OF 40 CFR 372.

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING RANGE : 172- 343 F
ODOR : TYPICAL SOLVENT
APPEARANCE : THIN YELLOW LIQ.
VOLATILE BY WEIGHT: 42.7%
VOLATILE BY VOLUME: 64.0%

VAPOR DENSITY : IS HEAVIER THAN AIR
EVAPORATION RATE: IS SLOWER THAN ETHER
SOLUBILITY : UNDER 25%
PRODUCT DENSITY : 10.4 LBS./GAL. (US)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

OSHA - FLAMMABLE LIQUID - CLASS IB
DOT - FLAMMABLE LIQUID OR SOLID

FLASH POINT: 21 F (SETAFLASH CLOSED CUP)
LEL: 0.9 %
UEL: 12.7 %

EXTINGUISHING MEDIA: CARBON DIOXIDE DRY CHEMICAL FOAM

MATERIAL SAFETY DATA SHEET

American Mil Spec Supply
Mount Vernon, NY 10550

Telephone No: 914 699 9712
Emergency Phone: 800 424 9300

PRODUCT NAME : MIL-P-23377 TYPE 1 CLASS 1 COMP B Primer

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	OCCUPATIONAL EXPOSURE LIMITS (TLV-TWA)	(TLV-STEL)	SKIN DESIG-NATION	VAPOR PRESSURE mmHg 20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
TRI(DIMETHYLAMINOMETHYL) PHENOL	N/A	5%	5 PPM	10 PPM	NO	0.1	YES	NC
POLYAMIDE RESIN SOLUTION IN XYLENE	N/A	20%	100 PPM	150 PPM	NO	5.0	NC	YES
BUTYL ALCOHOL	71-36-3	15%	100 PPM	NOT ESTABL.	YES	4.4	NC	YES
ISOPROPYL ALCOHOL	67-63-0	35%	400 PPM	500 PPM	NO	33.0	NO	NO
TOLUENE	108-88-3	15%	50 PPM	150 PPM	NO	22.0	NO	YES
ALIPHATIC NAPTHA	64742-89-8	20%	300 PPM	400 PPM	NO	26.0	NC	NO
XYLENE	1330-20-7	10%	100 PPM	150 PPM	NO	10.0	NC	YES

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1986 AND OF 40 CFR 372.

N.A. - NOT APPLICABLE

SECTION III - PHYSICAL DATA

BOILING RANGE : 180- 310 F
ODOR : TYPICAL SOLVENT
APPEARANCE : THIN CLEAR LIQUID
VOLATILE BY WEIGHT: 82.1%
VOLATILE BY VOLUME: 84.2%

VAPOR DENSITY : IS HEAVIER THAN AIR
EVAPORATION RATE: IS SLOWER THAN ETHER

SOLUBILITY :
PRODUCT DENSITY : 6.8 LBS./GAL. (US)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

FLASH POINT: 40 F (SETAFLASH CLOSED CUP)
LEL: 0.9 %
UEL: 12.0 %

OSHA - FLAMMABLE LIQUID - CLASS IB
DOT - FLAMMABLE LIQUID OR SOLID

EXTINGUISHING MEDIA: CARBON DIOXIDE DRY CHEMICAL FOAM

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

Manufacturer: SPRAYLAT CORPORATION
Address: 1701 EAST 122nd St. Chicago, IL 60633
Telephone - IL: (773) 646-5900 (Emergency and Information)
- CA: (310) 559-2335 (Emergency and Information)
- NY: (914) 699-3030 (Emergency and Information)
- TX: (940) 665-9590 (Emergency and Information)
After hours: (800) 424-9300 (Emergency only)
Date of preperation: 7/22/98 (note: supersedes all previous MSDS)
Prepared by: Jim Schmidt Phone number: (773) 646-5900 Fax: (773) 646-3743

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: EUAW098A
Product Class (Use): PROTECTIVE COATING
Trade Name: EUAW098A, MIL-C-85285B TYPE I/II URETHANE C-17925 WHITE T.C.

HMIS Information: Health- 1 Flammability- 3
Reactivity- 0 Personal Protective Equipment-
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

SECTION II HAZARDOUS INGREDIENTS

SECTION 313 SUPPLIER NOTIFICATION:
Those ingredients (if any) which have an asterisk (*) preceding the CAS# are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

#	--- INGREDIENT(S) --- MATERIAL DESCRIPTION	CAS #	% BY WT.	ACGIH-PPM TLV(TWA)	OSHA-PPM PEL	LEL	V.P. OTHER LIMIT
01	METHYL ISOBUTYL KETONE	* 108-10-1	<10	50.00	100.00	1.4	16.00
02	ACETIC ACID ESTER with C7 rich alcohol	90438-79-2	<10	50.00	NO EST.		1.00 TWA-RECOMMENDED
03	MODIFIED POLYOL	PROPRIETARY	<10	NO EST.	NO EST.		
08	TITANIUM DIOXIDE	13463-67-7	<50	10.00	15.00		MG/M3 AS DUST
13	METHYL N-AMYL KETONE	110-43-0	<10	50.00	100.00	1.0	4.00 STEL - 100 PPM
14	ACETYLACETONE	123-54-6	<10	20.00	NO EST.	2.4	7.00
16	N-BUTYL ACETATE	123-86-4	<10	150.00	150.00	1.7	14.00 STEL - 200 PPM
21	XYLENE	* 1330-20-7	<10	100.00	100.00	1.0	6.60 STEL-150 PPM
22	PGME ACETATE	108-65-6	<10	NO EST.	NO EST.	1.5	3.80
		% LEAD	.00				
		% CHROMATE	.00				

This product contains no reported carcinogens or suspected carcinogens.

7-30-98
36164-04

D. Day

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION III PHYSICAL DATA

Boiling Range: High - 469.4 F Low - 237.2 F
Vapor Pressure: See Section II
Vapor Density: Heavier Than Air
Evaporation Rate: Faster than Butyl Acetate
Weight per Gallon : 11.9 VOC : 3.392 Lb/Gl less water
% Volatile by Volume : 46.58 % Volatile by Weight : 28.41
Notes 1: The VOC content is determined by using a percent solids basis, less water and excempt solvents, for adhesives, coatings and inks and the calculations of EPA Reference Method 24 or equivalent ASTM method approved by the executive office.

2. If this product contains ACETONE, the following applies:
The federal EPA has delisted ACETONE as a VOC. Therefore although this product contains ACETONE, the VOC listed above does not include ACETONE in the VOC calculation. Individual states may have other regulations. Check with your state.

Physical State: LIQUID Appearance: WHITE LIQUID
Odor: MODERATE KETONE Odor Threshold: Not available
pH: N/A Freezing Point: Not Estimated
Water Solubility: INSOLUBLE
Coefficient of Water/Oil Distribution: Not available

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Class 1B DOT: Flammable Liquid
Lowest Flash Point: 60.0 F
Explosion Level: Lower - 1.0 Upper - 11.4
Auto Ignition Temperature: Not determined

EXTINGUISHING MEDIA:
Use CARBON DIOXIDE, DRY CHEMICALS OR ALCOHOL FOAM.

Based on Section II ingredient(s) # (01,21) Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.
SPECIAL FIRE FIGHTING PROCEDURES:
Clear fire area of unprotected personnel. Do not enter confined space without helmet, face shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH-approved self-contained breathing apparatus. Fight fire from a safe distance or a protected location.
HEAT PROTECTION PROCEDURES:
Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.
UNUSUAL FIRE AND EXPLOSION HAZARD:

****

MATERIAL SAFETY DATA SHEET PAGE 1

FOR COATINGS, RESINS AND RELATED MATERIALS

Manufacturer: SPRAYLAT CORPORATION
Address: 1701 EAST 122nd St. Chicago, IL 60633
Telephone - IL: (773) 646-5900 (Emergency and Information)
- CA: (310) 559-2335 (Emergency and Information)
- NY: (914) 699-3030 (Emergency and Information)
- TX: (940) 665-9590 (Emergency and Information)
After hours: (800) 424-9300 (Emergency only)
Date of preperation: 7/22/98 (note: supersedes all previous MSDS)
Prepared by: Jim Schmidt Phone number: (773) 646-5900 Fax: (773) 646-3743

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SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: EUAC082B
Product Class (Use): PROTECTIVE COATING ACTIVATOR
Trade Name: EUAC082B MIL-C-85285B/MIL-PRF-85285C TYPE I/II ACTIVATOR

HMIS Information: Health- 1 Flammability- 1
Reactivity- 0 Personal Protective Equipment-
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

****

SECTION II HAZARDOUS INGREDIENTS

SECTION 313 SUPPLIER NOTIFICATION:
Those ingredients (if any) which have an asterisk (*) preceding the CAS# are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

#	--- INGREDIENT(S) --- MATERIAL DESCRIPTION	CAS #	% BY WT.	ACGIH-PPM TLV(TWA)	OSHA-PPM PEL	LEL OTHER LIMIT	V.P.
01	1,6-HEXAMETHYLENE DI SOCYANATE PREPOLYMER	PROPRIETARY	<100	NO EST.	NO EST.		
02	METHYL N-AMYL KETONE	110-43-0	<25	50.00	100.00	1.0 STEL - 100 PPM	4.00
		% LEAD	.00				
		% CHROMATE	.00				

****

This product contains no reported carcinogens or suspected carcinogens.

****

SECTION III PHYSICAL DATA

Boiling Range: High - 301.0 F Low - 299.0 F
Vapor Pressure: See Section II
Vapor Density: Heavier Than Air
Evaporation Rate: Slower than Butyl Acetate
Weight per Gallon : 8.8 VOC : 1.808 Lb/Gl less water
% Volatile by Volume : 26.79 % Volatile by Weight : 20.50
Notes 1: The VOC content is determined by using a percent solids basis, less water and excempt solvents, for adhesives, coatings and inks and the calculations of EPA Reference Method 24 or equivalent ASTM method approved by the executive office.
2. If this product contains ACETONE, the following applies:

MATERIAL SAFETY DATA SHEET

COMPLIES WITH THE OSHA COMMUNICATION STANDARD 29 CFR 1910.1200

ANCHOR PAINT MANUFACTURING CO., INC.
6707 E. 14TH STREET
P.O. BOX 1305
TULSA, OKLAHOMA 74101

240 H

FOR HEALTH HAZARD INFORMATION CALL: (918) 836-4626, FOR OTHER INFORMATION CALL YOUR ANCHOR PAINT REPRESENTATIVE.

MIL-E-5558

SECTION I. IDENTIFICATION CAS: MIXTURE MAILING DATE: 2/22/99

CODE NUMBER: 1719 DESCRIPTION: HI TEMP SILICONE BLACK REVISION DATE: 1/29/99

SECTION II. HAZARDOUS INGREDIENTS

NAME	CAS NO.	PEL	TLV	OTHER	% BY WT
*TOLUENE	108-88-3	TWA 100 PPM	TWA 50 PPM	STEL 150 PPM	8.74
*XYLENE, (XYLOL)	1330-20-7	TWA 100 PPM	TWA 100 PPM	STEL 150 PPM	40.78
*ETHYL BENZENE	100-41-4	TWA 100 PPM	TWA 100 PPM	STEL 125 PPM	7.57
CARBON, NATURAL GRAPHITE	7782-42-5	2.5 MG/M3	TWA 5 MG/M3	TWA 15 MPPCF	12.17
CARBON BLACK	1333-86-4	3.5 MG/M3	3.5 MG/M3	RESP. DUST	.93
*COBALT AND COBALT COMPOUNDS		0.05 MG/M3	0.05 MG/M3	N.E.	.03
*DIETHYLENE GLYCOL MONOMETHYL ETHER	111-77-3	N.E.	N.E.	N.E.	TRACE
MINERAL SPIRITS (STODDARD SOLVENT)	8052-41-3	TWA 100 PPM	TWA 100 PPM	MFG. 100 PPM	.07

*The Product Described by this MSDS May contain Chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372! Hazardous Ingredients Marked with an (*) are subject to the reporting requirements of this Law.

V O C Lbs/Gal Actual.....: 4.88
V O C Lbs/Gal Less Water + Exempt: 4.88 Specific Gravity (WATER=1): 1.025

Section III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 230 - 300 Deg. F
Vapor Pressure (mm Hg): @37.8C 23mm Melting Point: N.A.

Vapor Density (Air=1): 3.7 Heavier than air. Evaporation Rate (Butyl Acetate=1) (Ethyl Ether=1): 2.1

Solubility in Water: Negligible.

Appearance and Odor: Liquid: Aromatic solvent odor, see description.

Section IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	Flammable Limits:	LEL	UEL
45 Deg. F T.C.C.		0.9	7.0

Extinguishing Media: Carbon Dioxide, Dry Chemical - Foam - Class "B" Fires.

Special Fire Fighting Procedures: Water may be ineffective. Water should be used to cool containers exposed to fire.
Unusual Fire and Explosion Hazards: Forms flammable and/or explosive mixtures with air or oxygen.

PRATT & LAMBERT 316-733-136[illegible]
Industrial Coatings Div.
P.O. Box 2153
Wichita, KS 67201

NOT EMERGENCY CHEMTEL (800)255-3924 (24hrs)
INFORMATION PHONE NO. 316-733-1361 (M-F 8 AM-5 PM CT)

CORPORATE CONTACT 716-873-6000 (M-F 8 AM-5 PM CT)

H.M.I.S.
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
These ratings should be used only as part of fully implemented H.M.I.S. program.

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT CLASS GOVERNMENT SPEC MAT **DATE OF PREPARATION** 3/28/95

TRADE NAME THINNER, AIRCRAFT CTG. TYPE I - POLYURETHANEMIL-T-81772B AM1

MANUFACTURER CODE I.D. 702900 48

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% BY WGT	CAS NO.		ALLOWABLE EXPOSURE LEVEL PPM	MG/CU.M.	MPPCF	SARA 313 SKIN		VP mm Hg @ 20 DEG.C
METHYL ETHYL KETONE	30	78-93-3	TLV-TWA	200	590			X	70
			TLV-STEL	300	885				
			OSHA-PEL	200	590				
			OSHA-STEL	300	885				
			LFL 2.0		UFL 10.0				
N-BUTYL ACETATE	10	123-86-4	TLV-TWA	150	710				10
			TLV-STEL	200	950				
			OSHA-PEL	150	710				
			OSHA-STEL	200	950				
			LFL 1.7		UFL 7.6				
PROPYLENE GLYCOL METHYL ETHER ACETATE	45	108-65-6	NONE ESTABLISHED						2
TOLUENE	10	108-88-3	TLV-TWA	50	147		SKIN	X	22
			OSHA-PEL	100	375				
			OSHA-STEL	150	560				
			LFL 1.7		UFL 7.1				
XYLENE	5	1330-20-7	TLV-TWA	100	435			X	5
			TLV-STEL	150	655				
			OSHA-PEL	100	435				
			OSHA-STEL	150	655				
			LFL 1.0		UFL 7.0				
ETHYL BENZENE	< 5	100-41-4	TLV-TWA	100	435			X	1
			TLV-STEL	125	545				
			OSHA-PEL	100	435				
			OSHA-STEL	125	545		SKIN		
			LFL 1.0		UFL 6.7				

LFL = LOWER FLAMMABILITY LIMIT PERCENT
UFL = UPPER FLAMMABILITY LIMIT PERCENT
SKIN = SKIN ABSORPTION MUST BE CONSIDERED AS A ROUTE OF EXPOSURE
C-CEILING= ALLOW. EXPOSURE LEVEL SHOULD NOT BE EXCEEDED FOR ANY TIME PERIOD
MFR = MANUFACTURER RECOMMENDED EXPOSURE LIMIT
STEL = SHORT TERM EXPOSURE LIMIT
X-SARA 313 = CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF S.A.R.A. 40 CFR PART 372

SECTION III - HEALTH INFORMATION

EFFECTS OF SHORT TERM OVEREXPOSURE

SWALLOWING
Can cause gastrointestinal irritation, nausea, and vomiting. Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

INHALATION
May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.

EYE
May cause severe eye irritation.

SKIN
Liquid material may be absorbed through the skin in harmful amounts.
May cause severe skin irritation.

EFFECTS OF REPEATED OVEREXPOSURE
Overexposure to xylene may cause injury to the liver, kidneys, and blood.
Repeated overexposure to toluene may cause liver damage.
Exposure to Methyl Ethyl Ketone may inhance the neurotoxicity of n-Hexane and Methyl-n-Butyl Ketone. This synergistic effect has resulted in peripheral neuropathy in humans.
Reports have associated prolonged and repeated occupational overexposure

SECTION III - HEALTH INFORMATION; (CONTINUED)

EFFECTS OF REPEATED OVEREXPOSURE
to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH.
Toluene has been found to cause kidney, lung and spleen damage in laboratory animals.
Laboratory studies involving rats indicate some evidence that Methyl Ethyl Ketone may be embryotoxic, fetotoxic and teratogenic.

SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

SWALLOWING
If swallowed do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

INHALATION
Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention immediately.

EYE
Flush with large amounts of water, lifting upper and lower lids occasionally. Continue for at least 15 minutes. Get medical attention.

SKIN
Remove contaminated clothing. Wash affected area with soap and water. Obtain medical attention if irritation persists.

NOTES TO PHYSICIAN
Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION V - PHYSICAL DATA

BOILING RANGE 175 DEG.F. (79 DEG.C.) TO 284 DEG.F.(140 DEG.C.)

VAPOR DENSITY than air. **% VOLATILE BY VOLUME** 100

EVAPORATION RATE Slower than diethyl ether. **VOC** 7.43 lb/gal less water & NPRS* 892 g/l less water CALCULATED

WEIGHT LB./GAL. 7.4 **VOC** .00 lb/gal solids 0 g/l solids CALCULATED
SPECIFIC GRAVITY 0.9

All Physical data determined at 68 DEG. F. (20 DEG. C.) 760 mm Hg
*** Negligibly Photochemically Reactive Materials**
VOC values reported here are verified by ASTM method D-3960

SECTION VI - FIRE AND EXPLOSION DATA

NFPA FLAMMABILITY CLASSIFICATION FLAMMABLE LIQUID - CLASS IB

FLASHPOINT 24 DEG.F, (-4 DEG.C,) CALCULATED

EXTINGUISHING MEDIA
Use NFPA Class B Fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS
During emergency conditions, overexposure to decompostion products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
WARNING! FLAMMABLE.

SPECIAL FIRE FIGHTING PROCEDURES
Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION VII - REACTIVITY DATA

STABILITY
Normally stable.

CONDITIONS TO AVOID
Avoid excessive heat (>115 F (46 C) and sources of ignition.

INCOMPATABILITY (MATERIALS TO AVOID)
Strong acids or alkaline materials.
Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS
Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION
Will not occur

CONDITIONS TO AVOID
None known

SECTION VIII - ENVIRONMENTAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Keep spectators away. Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking

MATERIAL SAFETY DATA SHEET

Printed : 08/22/97
Supersedes : 07/01/96
Revised : 08/07/97

SECTION I - PRODUCT INDENTIFICATION

nufacturer: COURTAULDS AEROSPACE
5430 SAN FERNANDO ROAD,
P.O.BOX 1800
GLENDALE CA 91209

Information Phone: (818) 240-2060
Emergency Phone: (800) 228-5635
CHEMTREC Phone: (800) 424-9300

oduct Class: POLYESTER
rade Name : CA8100/B707 ANTICHAFE GRAY
oduct Code : 8100707 - BASE COMPOUND
DS ID No. : MS8159A02

Hazard Ratings: Health - 2
none -> extreme Fire - 3
0 ---> 4 Reactivity - 0
Personal Protection - J

.O.T. Hazard Class : Flammable liquid UN #: UN1263
roper Shipping Name: Paint
Hazard Class 3 Packing Group 3
eportable Quantity: See section VII
P

SECTION II - INGREDIENTS

Hazardous Ingredients	CAS #	Weight %	Exposure Limits ACGIH/TLV		OSHA/PEL		VP mm HG
METHYL AMYL KETONE	000110-43-0	10.	50	ppm	100	ppm	2.1
METHYL ISOBUTYL KETONE	000108-10-1	5.	50 STEL= 75	ppm	50 75	ppm	15
YLENE	001330-20-7	< 5.	100 STEL= 150	ppm	100 150	ppm	6.6
OLUENE	000108-88-3	< 1.	50 STEL= - - - - -	ppm	100 150	ppm	23
ITANIUM DIOXIDE @	013463-67-7	30.	10	mg/M3	10	mg/M3	N/AP

n Hazardous Ingredients	CAS #
POLYESTER POLYOL	035484-93-6
OLYTETRAFLUOROETHYLENE	009002-84-0
OLYETHYLENE	009002-88-4
POLYESTER POLYOL	NOT KNOWN

** ALL Ingredients in this product are listed in the T.S.C.A. Inventory.

@ -> These items are listed as required by 29CFR 1910:1200
(cont.)

SECTION II - INGREDIENTS (cont.)

(cont.)
because they appear on airborne contaminants list. However, in this product they are in fully encapsulated form and therefore are not hazardous to users under normal circumstances. If the cured product is sanded or ground so as to release respirable particles, suitable respiratory protection should be used.

-> These items are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION III - PHYSICAL DATA

Boiling Range: 214 - 300 Deg. F
Evap. Rate: Unavailable
Volatiles volume: 34.15 %
Vapor Density: Heavier than Air.
Liquid Density: Heavier than Water.
Wgt per gallon: 11.17 Pounds.
Spec. Gravity: 1.341
Appearance: GRAY LIQUID, SOLVENT ODOR
V.O.C. (GR/L): 352 MIXED WITH ACTIVATOR @1/1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: FLAMMABLE Flash Point: 80 F Setaflash LEL: Unknown

-EXTINGUISHING MEDIA:
Carbon dioxide, dry chemical or foam.

-SPECIAL FIREFIGHTING PROCEDURES:
Water spray may be ineffective. cool fire exposed containers with water. Fog nozzles are preferrable. Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

-UNUSUAL FIRE & EXPLOSION HAZARDS:
Vapors may accumulate in inadequately ventilated or confined areas. Vapors may form explosive mixtures with air. Vapors may travel long distances. Flashback or Flame to the handling site may occur. Closed containers may explode when exposed to extreme heat.

SECTION V - HEALTH HAZARD DATA

-PERMISSIBLE EXPOSURE LEVEL:
See section II (not established for product).

-EFFECTS OF OVEREXPOSURE:

MAK

(cont.)

ATTACHMENT 4

1998 Emissions Spreadsheet for Limco Airepair, Inc.						
The following products were purchased as 100% pure product. Amounts given below represent total emissions for each product in pounds.						
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Isopropyl Alcohol		578.00	67-63-0	Non	0.11	0.29
MEK		3764.00	78-93-3	Haps	0.75	1.88
Mineral Spirits		1491.00	8052-41-3	Non	0.30	0.75
Trichloroethylene		7147.00	79-01-6	Haps	1.43	3.57
Toluene		34.00	108-88-3	Haps	0.00	0.02
The following products represent all coatings used in the paint booth at the facility.						
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
CA8100/B707 Gray	1.00	3.81			0.00	0.00
Methyl Amyl Ketone		0.38	110-43-0	Haps	0.00	0.00
MIBK		0.19	108-10-1	Haps	0.00	0.00
Xylene		0.19	1330-20-7	Haps	0.00	0.00
Toluene		0.04	108-88-3	Haps	0.00	0.00
Titanium Dioxide		1.14	13463-67-7	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
BMS 10-11 Type 1	15.00	99.00			0.02	0.05
Dimethyl Aminmethyl phe		9.90	Mix	Non	0.00	0.00
Ethylbenzene		19.80	100-41-4	Haps	0.00	0.01
Xylene		49.50	1330-20-7	Haps	0.01	0.02
Isopropyl Alcohol		39.60	67-63-0	Non	0.01	0.02
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
BMS 10-20 II A IFT	13.00	66.30			0.02	0.03
Crystalline Silica		6.63	14464-46-1	Non	0.00	0.00
n-Butyl Alcohol		6.63	71-36-3	Non	0.00	0.00
Toluene		13.26	108-88-3	Haps	0.00	0.01
Xylene		6.63	1330-20-7	Haps	0.00	0.00
Cyclohexanone		13.26	108-94-1	Haps	0.00	0.01
MEK		13.26	78-93-3	Haps	0.00	0.01
MIBK		6.63	108-10-1	Haps	0.00	0.00
Isopropyl Alcohol		6.63	67-63-0	Non	0.00	0.00
Chromium (Non Volatile)		1.33	7440-47-3	Non	0.00	0.00
Zinc (Non Volatile)		7.29	7440-66-6	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
BMS 10-20 II B IFT	13.00	68.90			0.02	0.03
Crystalline Silica		6.89	14464-46-1	Non	0.00	0.00
Butyl Acetate		13.78	123-86-4	Non	0.00	0.01
Toluene		13.78	108-88-3	Haps	0.00	0.01
Xylene		6.89	1330-20-7	Haps	0.00	0.00
Cyclohexanone		13.78	108-94-1	Haps	0.00	0.01
MIBK		6.89	108-10-1	Haps	0.00	0.00

Chromium (Non Volatile)		1.38	7440-47-3	Non	0.00	0.00
Zinc (Non Volatile		7.58	7440-66-6	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
HS Epoxy Black 595-17038	15.00	48.00			0.01	0.02
Crystalline Silica		14.40	14808-60-7	Non	0.00	0.01
Methyl Amyl Ketone		4.80	110-43-0	Haps	0.00	0.00
1-methoxy-2-propanol ace		4.80	107-98-2	Non	0.00	0.00
xylene		4.80	1330-20-7	Haps	0.00	0.00
Pseudocumene		4.80	95-63-6	Non	0.00	0.00
MEK		4.80	78-93-3	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Epoxy Gray Gloss	2.00	10.38			0.00	0.01
Formaldehyde		0.01	50-00-0	Haps	0.00	0.00
Ethylene Glycol ME		0.52	111-76-2	Non	0.00	0.00
MEK		2.60	78-93-3	Haps	0.00	0.00
Toluene		1.04	108-88-3	Haps	0.00	0.00
Xylene		0.05	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-C-22750D Gloss Black	2.00	9.36			0.00	0.00
BispehnolA Diglycidyl ...		4.45	25068-38-6	Non	0.00	0.00
Toluene		1.49	108-88-3	Haps	0.00	0.00
Additive - Grinding Agent		0.07	Prop	Non	0.00	0.00
Propylene Glycol ME		1.68	107-98-2	Non	0.00	0.00
Carbon Black		0.07	1333-86-4	Non	0.00	0.00
MEK		0.29	78-93-3	Haps	0.00	0.00
Ethyl Acetate		0.29	141-78-6	Non	0.00	0.00
n-butanol		0.20	71-36-3	Non	0.00	0.00
Silicone Resin		0.04	110775-80-9	Non	0.00	0.00
Isopropanol		0.00	67-63-0	Non	0.00	0.00
Xylene Additive		0.02	mix	Non	0.00	0.00
Mod. Dimethylpolysiloxane		0.01	Trade	Non	0.00	0.00
Xylene		0.01	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-P-23377APrimer	2.00	13.30			0.00	0.01
Strontium Chromate		2.66	7789-06-2	Haps	0.00	0.00
2-Butoxyethanol		0.67	111-76-2	Non	0.00	0.00
MEK		2.66	78-93-3	Haps	0.00	0.00
Propylene Glycol ME		0.67	107-98-2	Non	0.00	0.00
Toluene		2.00	108-88-3	Haps	0.00	0.00
Aliphatic Naptha		0.67	64742-89-8	Non	0.00	0.00
Xylene		0.67	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-P-23377 B Primer	2.00	11.46			0.00	0.01
TriDimthylaminomethyl phen		0.57	N/A	Non	0.00	0.00

Polyamide Resin Solution		2.29	NA	Non	0.00	0.00
Butyl Alcohol		1.72	71-36-3	Non	0.00	0.00
Isopropyl Alcohol		4.01	67-63-0	Non	0.00	0.00
Toluene		1.72	108-88-3	Haps	0.00	0.00
Aliphatic Naptha		2.29	64742-89-8	Non	0.00	0.00
Xylene		1.15	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Thinner Ctg Type 1	2.00	14.86			0.00	0.01
MEK		4.46	78-93-3	Haps	0.00	0.00
n-Butyl Acetate		1.49	123-86-4	Non	0.00	0.00
Propylene Glycol ME Ace		6.69	108-65-6	Non	0.00	0.00
Toluene		1.49	108-88-3	Haps	0.00	0.00
Xylene		0.74	1330-20-7	Haps	0.00	0.00
Ethylbenzene		0.74	100-41-4	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-E-5558	24.00	117.12			0.03	0.06
Toluene		10.19	108-88-3	Haps	0.00	0.01
Xylene		48.02	1330-20-7	Haps	0.01	0.02
Ethylbenzene		9.37	100-41-4	Haps	0.00	0.00
Carbon		14.05	7782-42-5	Non	0.00	0.01
Carbon Black		1.05	1333-86-4	Non	0.00	0.00
Cobalt		0.04		Non	0.00	0.00
Diethylene Gylcol ME		0.01	111-77-3	Non	0.00	0.00
Mineral Spirits		0.08	8052-41-3	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
EUAW098A Mil -C-85285B	4.00	13.56			0.00	0.01
MIBK		1.36	108-10-1	Haps	0.00	0.00
Acetic Acid		1.36	90438-79-2	Non	0.00	0.00
Modified Polyol		1.36	Prop	Non	0.00	0.00
Titanium Dioxide		6.78	13463-67-7	Non	0.00	0.00
Methyl n-Amyl Ketone		1.36	110-43-0	Haps	0.00	0.00
Acetylacetone		1.36	123-54-6	Non	0.00	0.00
n-Butyl Acetate		1.36	123-86-4	Non	0.00	0.00
Xylene		1.36	1330-20-7	Haps	0.00	0.00
PGME Acetate		1.36	108-65-6	Non	0.00	0.00
Product Totals		13391.05			2.68	6.70
TOTAL HAPS	**TOTAL LBS**		**CAS #**		**LBS/HR**	**TON/YR**
MEK	3792.06		78-93-3		0.91	1.90
Trichloroethylene	7147.00		79-01-6		1.72	3.57
Toluene	78.99		108-88-3		0.02	0.04
Methyl Amyl Ketone	6.54		110-43-0		0.00	0.00
MIBK	15.07		108-10-1		0.00	0.01
Xylene	120.02		1330-20-7		0.03	0.06
Ethylbenzene	29.91		100-41-4		0.01	0.01

Cyclohexanone	27.04		108-94-1		0.01	0.01
Formaldehyde	0.01		50-00-0		0.00	0.00
Strontium Chromate	2.66		7289-06-2		0.00	0.00
Total Haps	11219.30				2.70	5.61
TOTAL NON HAPS	**TOTAL LBS**		**CAS #**		**LBS/HR**	**TON/YR**
Isopropyl Alchol	628.24		67-63-0		0.15	0.31
Mineral Spirits	1491.08		3052-41-3		0.36	0.75
Titanium Dioxide	7.92		13463-67-7		0.00	0.00
Dimethyl Aminemethyl phe	9.90		NE		0.00	0.00
Crystalline Silica	27.92		14464-46-1		0.01	0.01
n-Butyl Alcohol	8.55		71-36-3		0.00	0.00
Chromium	2.70		7440-47-3		0.00	0.00
Zinc	14.87		744-66-6		0.00	0.01
Butyl Acetate	16.62		123-86-4		0.00	0.01
1-methoxy-2-propanol Ace	4.80		107-98-2		0.00	0.00
Pseudocumene	4.80		95-63-3		0.00	0.00
Ethylene Glycol ME	1.20		111-76-2		0.00	0.00
Propylene Glycol ME	9.03		107-98-2		0.00	0.00
PGME Acetate	1.36		108-65-6		0.00	0.00
Acetylacetone	1.36		123-54-6		0.00	0.00
Mondified Polyol	1.36		NE		0.00	0.00
Acetic Acid	1.36		90438-79-2		0.00	0.00
Bisphenol A Diglicidyl	4.45		25068-38-6		0.00	0.00
Additive - Grinding Agent	0.07		NE		0.00	0.00
Carbon Black	1.13		1333-86-4		0.00	0.00
Carbon	14.05		7782-42-5		0.00	0.01
Cobalt	0.04		NE		0.00	0.00
Ethyl Acetate	0.29		141-78-6		0.00	0.00
Silicone Resin	0.04		110775-80-9		0.00	0.00
Mod. Dimethylpolysiloxane	0.01		NE		0.00	0.00
Aliphatic Naptha	2.96		64742-89-8		0.00	0.00
TriDimethylaminomethyl phe	0.57		NE		0.00	0.00
Polyamide Resin	2.29		NE		0.00	0.00
Total Non Haps	2258.96				0.54	1.13

ATTACHMENT 5

N

RESADENTIAL

CHARLYHILL APT.

FORD DEALER

RIVER SIDE CHEVY

HEAVY INDUST.

41 ST

CITY OF TULSA WATER TREATMENT

CONCRETE CO.

ARK. RIVER

1 MILE

Hy. 44

SKELLY

Clover Road

MOTEL 3

1

2

5/10

MOTEL

CHAIN LINK FENCE

DOOR MANF. 3/10

VACANT

PEPSI WHERHOUSE 2/10

VACANT 1/10

EMPTY

KIMCO

100'

Paint Booth Exhaust Outlet

PEPSI BOTTELING PLANT

CITY OF TULSA WATER TREATMENT

PEPSI TRAILER PARKING

ARK. RIVER

Hy 75

WOOD

4/10 MILE

4/10 MI

WOODS

3/8 MILE

61 ST

ATTACHMENT 6

T U R N - A R O U N D D O C U M E N T

Point Source Emissions Inventory

Air Quality Division
Oklahoma Department of Environmental Quality
707 North Robinson Avenue, Suite 4100
Oklahoma City, OK 73101
(405) 702-4100

Company Name: Limco-Airepair, Inc. (Company Name)

Plant Reference: SAME (Facility Name)

Address: 5304 South Lawton Avenue (Street or Mailing Address) Status: Active ()

City: Tulsa (City) State: OK (ST) Zip Code: 74107 ()

Contact: Bob Johnson (Responsible party) Phone: 445-4300 () FAX: 446-8704

SIC #: 3728 () Report Period: 1/98 to 12/98 (month/year) Number of Employees: 110

UTM Zone: ____ () UTM Horizontal: _____ km. () UTM Vertical: _____ km. ()

County: Tulsa (County) Section: 35 Township: 19N Range: 12E

Comments:

[]

****

I hereby certify that all matters, facts and statements contained herein are true and correct to the best of my knowledge and belief.

Signature: _____ Date: 4-22-99

Title: Controller

****

Process Source Vapor Degreaser #1 []

<INFO> Status: Active ()

<EMISSIONS>		Tons/Year		Estimation Method	
Part.	Est.		(0.000)		()
	All.		(0.000)		
PM-10	Est.		(0.000)		()
	All.		(0.000)		
SO2	Est.		(0.000)		()
	All.		(0.000)		
NOx	Est.		(0.000)		()
	All.		(0.000)		
VOC	Est.	3.57	(0.000)	2	()
	All.		(0.000)		
CO	Est.		(0.000)		()
	All.		(0.000)		

<CONTROLS>		Type Equipment		Total Eff.
PART.	Prim.		()	
	Sec.		()	% (0.0)
PM-10	Prim.		()	
	Sec.		()	% (0.0)
SO2	Prim.		()	
	Sec.		()	% (0.0)
NOx	Prim.		()	
	Sec.		()	% (0.0)
VOC	Prim.		()	
	Sec.		()	% (0.0)
CO	Prim.		()	
	Sec.		()	% (0.0)

Stack Height: _____ ft. (0) Stack Temperature: _____ deg.F (0)
Stack Diameter: _____ ft. (0.0) Stack Flowrate: _____ acfm (0)

Unit Design Capacity: _____ MMBTU/hr (0.0)

<OPERATION> Type: _____ [SCC]

Annual Process Rate: 3.57 (0.0)
Max.Hourly Process Rate: 1.43 (0.000)
Units: lbs/hr. ()

Hours/Year: 4992 (0)
Hours/Day: 16 (0)
Days/Week: 6 (0)

Process Source Paint Booth #2 []

<INFO> Status: Active ()

<EMISSIONS>		Tons/Year		Estimation Method	
Part.	Est.		(0.000)		()
	All.		(0.000)		
PM-10	Est.		(0.000)		()
	All.		(0.000)		
SO2	Est.		(0.000)		()
	All.		(0.000)		
NOx	Est.		(0.000)		()
	All.		(0.000)		
VOC	Est.	0.23	(0.000)	2	()
	All.		(0.000)		
CO	Est.		(0.000)		()
	All.		(0.000)		

<CONTROLS>		Type Equipment		Total Eff.
PART.	Prim.	Fabric Filter	()	
	Sec.		()	95 % (0.0)
PM-10	Prim.		()	
	Sec.		()	% (0.0)
SO2	Prim.		()	
	Sec.		()	% (0.0)
NOx	Prim.		()	
	Sec.		()	% (0.0)
VOC	Prim.		()	
	Sec.		()	% (0.0)
CO	Prim.		()	
	Sec.		()	% (0.0)

Stack Height: ____ ft. (0) Stack Temperature: ____ deg.F (0)
Stack Diameter: ____ ft. (0.0) Stack Flowrate: ____ acfm (0)

Unit Design Capacity: ____ MMBTU/hr (0.0)

<OPERATION> Type: [SCC]

Annual Process Rate: 0.23 (0.0)
Max.Hourly Process Rate: 0.09 (0.000)
Units: lbs/hr. ()

Hours/Year: 4992 (0)
Hours/Day: 16 (0)
Days/Week: 6 (0)

Fuel Burning Source Jet Sweep Oven []

<INFO> Status: Active ()

<EMISSIONS>		Tons/Year		Estimation Method	
Part.	Est.	0.004	(0.000)	2	()
	All.		(0.000)		
PM-10	Est.	0.0	(0.000)	2	()
	All.		(0.000)		
SO2	Est.	0.0002	(0.000)	2	()
	All.		(0.000)		
NOx	Est.	0.031	(0.000)	2	()
	All.		(0.000)		
VOC	Est.	0.0017	(0.000)	2	()
	All.		(0.000)		
CO	Est.	0.007	(0.000)	2	()
	All.		(0.000)		

<CONTROLS>		Type Equipment		Total Eff.
PART.	Prim.		()	
	Sec.		()	% (0.0)
PM-10	Prim.		()	
	Sec.		()	% (0.0)
SO2	Prim.		()	
	Sec.		()	% (0.0)
NOx	Prim.		()	
	Sec.		()	% (0.0)
VOC	Prim.		()	
	Sec.		()	% (0.0)
CO	Prim.		()	
	Sec.		()	% (0.0)

Stack Height: _____ ft. (0) Stack Temperature: _____ deg.F (0)
Stack Diameter: _____ ft. (0.0) Stack Flowrate: _____ acfm (0)

Unit Design Capacity: 300,000 MMBTU/hr (0.0)

<OPERATION> Type: _____ [SCC]

Annual Process Rate: 621.6 (0.0)
Max.Hourly Process Rate: 0.12 (0.000)
Units: mmbtu/hr. ()

Hours/Year: 4992 (0)
Hours/Day: 16 (0)
Days/Week: 16 (0)

Fuel Burning Source Heat Treat Oven []

<INFO> Status: Active ()

<EMISSIONS>		Tons/Year		Estimation Method	
Part.	Est.	0.0006	(0.000)	2	()
	All.		(0.000)		
PM-10	Est.	0	(0.000)	2	()
	All.		(0.000)		
SO2	Est.	0.00003	(0.000)	2	()
	All.		(0.000)		
NOx	Est.	0.005	(0.000)	2	()
	All.		(0.000)		
VOC	Est.	0.0003	(0.000)	2	()
	All.		(0.000)		
CO	Est.	0.001	(0.000)	2	()
	All.		(0.000)		

<CONTROLS>		Type Equipment		Total Eff.
PART.	Prim.		()	
	Sec.		()	% (0.0)
PM-10	Prim.		()	
	Sec.		()	% (0.0)
SO2	Prim.		()	
	Sec.		()	% (0.0)
NOx	Prim.		()	
	Sec.		()	% (0.0)
VOC	Prim.		()	
	Sec.		()	% (0.0)
CO	Prim.		()	
	Sec.		()	% (0.0)

Stack Height: _____ ft. (0) Stack Temperature: _____ deg.F (0)
Stack Diameter: _____ ft. (0.0) Stack Flowrate: _____ acfm (0)

Unit Design Capacity: 175.000 MMBTU/hr (0.0)

<OPERATION> Type: _____ [SCC]

Annual Process Rate: 103.6 mmbtu/yr. (0.0)
Max.Hourly Process Rate: 0.02 (0.000)
Units: mmbtu/hr. ()

Hours/Year: 4992 (0)
Hours/Day: 16 (0)
Days/Week: 6 (0)

Fuel Burning Source Gehrich Drying Oven []

<INFO> Status: Active ()

<EMISSIONS>		Tons/Year		Estimation Method	
Part.	Est.	0.002	(0.000)	2	()
	All.		(0.000)		
PM-10	Est.	0.0	(0.000)	2	()
	All.		(0.000)		
SO2	Est.	0.0001	(0.000)	2	()
	All.		(0.000)		
NOx	Est.	0.015	(0.000)	2	()
	All.		(0.000)		
VOC	Est.	0.001	(0.000)	2	()
	All.		(0.000)		
CO	Est.	0.003	(0.000)	2	()
	All.		(0.000)		

<CONTROLS>		Type Equipment		Total Eff.
PART.	Prim.		()	
	Sec.		()	% (0.0)
PM-10	Prim.		()	
	Sec.		()	% (0.0)
SO2	Prim.		()	
	Sec.		()	% (0.0)
NOx	Prim.		()	
	Sec.		()	% (0.0)
VOC	Prim.		()	
	Sec.		()	% (0.0)
CO	Prim.		()	
	Sec.		()	% (0.0)

Stack Height: ____ ft. (0) Stack Temperature: ____ deg.F (0)
Stack Diameter: ____ ft. (0.0) Stack Flowrate: ____ acfm (0)

Unit Design Capacity: 309,000 MMBTU/hr (0.0)

<OPERATION> Type: ____ [SCC]

Annual Process Rate: 310.8 (0.0)
Max.Hourly Process Rate: 0.062 (0.000)
Units: 1 ()

Hours/Year: 4992 (0)
Hours/Day: 16 (0)
Days/Week: 6 (0)

TOXICS EMISSION REPORT FORM

Please copy this form and submit a separate page for each point that has toxic emissions. If the emissions are fugitives then make a copy of the form and enter "Fugitive" for the point name. These estimates should include any amounts greater than 0.1 tons per year.

Any substance listed as a Toxic Air Contaminant in OAC 252:100-41 should be reported. Any substance reported in the Toxics Release Inventory under SARA Title III should also be reported here. Any Hazardous Air Pollutant (HAP) cited in the "list of 187" under Title III of the 1990 Clean Air Act Amendments should be included and should have an asterisk (*) preceding the CAS number.

VOC Toxic emissions should be reported here. They should NOT be reported as VOC criteria pollutants for this point. Any questions relating to toxic reporting should be addressed to Evelina Morales at (405)290-8247.

Pt. No,	Point Name	Toxic Substance	CAS No.	Emissions tons/yr.
NA	Parts Cleaning	MEK	78-93-3	1.90
1	Vapor Degreaser	Trichloroethylene	79-01-6	3.57
NA	General Use	Toluene	108-88-3	0.04
2	Paint Booth	Methyl Amyl Ketone	110-43-0	0.00
2	Paint Booth	MIBK	108-10-1	0.01
2	Paint Booth	Xylene	1330-20-7	0.06
2	Paint Booth	Ethylbenzene	100-41-4	0.01
2	Paint Booth	Cyclohexane	108-94-1	0.01
2	Paint Booth	Formaldehyde	50-00-0	0.00
2	Paint Booth	Strontium Chromate	7789-06-2	0.00
NA	General Use	Isopropyl Alcohol	67-63-0	0.31
NA	General Use	Mineral Spirits	3052-41-3	0.75

ATTACHMENT 7

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Sodium metabisulfite FCC
HCI PRODUCT ID NUMBER:	02762
SYNONYMS:	Anhydrous sodium pyrosulfite
CHEMICAL FAMILY NAME:	Inorganic, salt
	NFPA HAZARD RATINGS (H-F-R): 2-0-1
	HMIS HAZARD RATINGS (H-F-R): 2-0-1
DISTRIBUTOR:	HCI U.S.A. DISTRIBUTION COMPANIES, INC. TECHNICAL RESOURCE CENTER 6529 S. BROADWAY ST. LOUIS, MO 63111 (314) 353-6500

IN CASE OF EMERGENCY CALL: CHEMTREC 1-800-424-9300

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
Sodium metabisulfite	007681-57-4	95-100

These impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

********** EMERGENCY OVERVIEW **********

Caution:
May cause irritation to the skin, eyes, respiratory tract, and gastrointestinal tract.
May be harmful if inhaled or ingested.

Continued

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
APPEARANCE:	White or cream, powder or granules
ODOR:	Sulfur dioxide
MOLECULAR WEIGHT:	190.13
SPECIFIC GRAVITY:	1.1-1.5
SOLUBILITY (IN WATER):	40% @ 20 C
BOILING POINT:	N/AP
FREEZING POINT:	N/AP
MELTING POINT:	302 F 149.99 C
PRODUCT pH (@ 23 C):	4.3-5 (1% soln)
VAPOR PRESSURE:	N/AP
VAPOR DENSITY:	N/AP
EVAPORATION RATE (BUTYL ACETATE=1):	N/AP
% VOLATILES:	N/AP

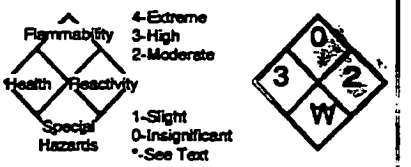
10. STABILITY AND REACTIVITY INFORMATION

STABILITY:	Stable
COND. TO AVOID:	Exposure to high temperatures should be minimized. Moisture Air
INCOMPATIBILITY:	Strong oxidizers Acids Water and/or [illegible]
DECOMPOSITION:	Oxides of Sulfur Oxides of Sodium Sodium sulfide residue
POLYMERIZATION:	Polymerization will not occur.

Continued

KOCH

MATERIAL SAFETY DATA SHEET

24-HOUR EMERGENCY ASSISTANCE		GENERAL ASSISTANCE	NFPA FIRE HAZARD SYMBOL
Koch Industries, Inc.:	316-832-6777	316-832-6777	
CHEMTREC Assistance:	800-424-9300	316-832-6754	
MSDS Number >	5371		

MANUFACTURER/SUPPLIER: Koch Sulfur Products Company
ADDRESS: PO Box 2256, Wichita, KS 67201

PRODUCT IDENTIFICATION

TRADE NAME:
SULFURIC ACID

CAS NUMBER: 7664-93-9
SYNONYM(S): OIL OF VITRIOL
CHEMICAL FAMILY: MINERAL ACID
MOLECULAR FORMULA: H2SO4
MOLECULAR WEIGHT: 98.07
PRODUCT CODE: ND **HIERARCHY:**

PRODUCT HAZARD SUMMARY

HEALTH DANGER!

MAY BE CORROSIVE TO THE SKIN, EYES AND RESPIRATORY TRACT
ASPIRATION HAZARD IF SWALLOWED-CAN ENTER LUNGS AND CAUSE DAMAGE
CANCER HAZARD
* * SEE SPECIAL TOXIC EFFECTS SECTION FOR MORE INFORMATION

FLAMMABILITY NON-COMBUSTIBLE

REACTIVITY MAY REACT VIOLENTLY WITH WATER

PRODUCT HEALTH HAZARD INFORMATION

INGESTION:
CORROSIVE. May cause painful irritation and burning of the mouth and throat, painful swallowing, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection. Corrosive damage to the stomach and esophagus may be delayed.

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TURCO MATERIAL SAFETY DATA SHEET

TURCO LIQUID SMUT-GO NC

CS No.: 01743

Date: 03/27/92

SECTION I MANUFACTURER'S NAME AND ADDRESS

Manufacturer's Name: TURCO PRODUCTS, INC.
DIVISION OF ATOCHEM NORTH AMERICA

Address: 7300 BOLSA AVENUE
WESTMINSTER, CA 92684

Emergency telephone: (614) 387-6200
For information: (714) 890-3600

SECTION II HAZARD INFORMATION

THE FOLLOWING INGREDIENTS ARE DEFINED TO BE HAZARDOUS PER 29CFR 1910-1200:

NAME (CAS)	CERCLA RQ	RCRA NO	SARA REPORTABLE	%
FERRIC SULFATE (10028-22-5)	1000	NOT LISTED	NO	25
ACGIH TLV: 1 mg/m3 (Fe) OSHA PEL: 1 mg/m3 (Fe)				
SODIUM BIFLUORIDE (1333-83-1)	100	NOT LISTED	NO	<5
ACGIH TLV: 2.5 mg/m3(F) OSHA PEL: 2.5 mg(F)/m3				
NITRIC ACID (7697-37-2)	1000	NOT LISTED	YES	5
ACGIH TLV: 2 ppm OSHA PEL: 2 ppm				

THE FOLLOWING INGREDIENTS ARE NOT REQUIRED TO BE LISTED BY 29CFR 1910-1200, BUT ARE LISTED IN CONFORMANCE WITH THE 'RIGHT-TO-KNOW' LAWS OF CERTAIN STATES, INCLUDING PENNSYLVANIA AND NEW JERSEY:

WATER (7732-18-5), FERROUS SULFATE (7720-78-7)

CARCINOGENS: NONE (AS DEFINED IN 29CFR 1910-1200, APPENDIX A(1)

DOT INFORMATION
PROPER SHIPPING NAME: Corrosive Liquid, n.o.s.
(Ferric Sulfate, Nitric Acid)

HAZARD CLASS: Corrosive material ID NUMBER: UN1760 PG II

SECTION III PHYSICAL PROPERTIES (TYPICAL)

Boiling point: Approx. 212 deg. F.
Vapor pressure: Approx. 20mmHg
Vapor density: <1
(air=1)
Solubility in water: Complete
Appearance and odor:
Dark-brown liquid; acid odor

Specific gravity: 1.33
Volatile, % by volume: Approx. 60
Evaporation rate: <1
(BuAc=1)
pH: Concentrated 1.0

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: KLEER AID POLYMER A 15 L MSDS No.: 13612
REVISION: 3
PREPARED BY: DIR OF ENV AFFAIRS ISSUE DATE:08/21/95 EFFECTIVE DATE: 08/21/97

SECTION A. MATERIAL IDENTIFICATION.

MANUFACTURER: McGEAN-ROHCO, INC.

38581 SCHOOLCRAFT AVE.
LIVONIA MI 48150
TELEPHONE: 313-464-2300

CHEMTREC:
TELEPHONE #: 800-424-9300
OR 703-527-3887

SECTION B. INGREDIENTS AND HAZARDS.

INGREDIENT: PETROLEUM DISTILLATE

20.0 - 30.0%
CAS NUMBER: 8002-05-9
EXPOSURE LIMIT: TWA: 1000mg/CU METER
SUSPECT CARCINOGEN: NO

SECTION C. PHYSICAL DATA.

APPEARANCE: WATER IN OIL EMULSION
ODOR: SOLVENT
SPECIFIC GRAVITY: 1.0
pH: NA
BOILING POINT: 212F WATER PHAS
FREEZING POINT: UK
VAPOR PRESSURE: UK
VAPOR DENSITY: UK
% VOLATILE BY VOLUME: NA
EVAPORATION RATE: (BUTYL ACETATE SOLUBILITY IN WATER: DISPERSIBLE

SECTION D. FIRE AND EXPLOSION HAZARD DATA.

FLASH POINT: >200F
TEST METHOD: TCC
LIMITS: LEL: UK
UEL: UK

HAZARD SYMBOL CODES

	NFPA	HMIS
HEALTH:	2	2
FLAMMABILITY:	1	1
REACTIVITY:	0	0
SPECIAL:		

EXTINGUISHING MEDIA: CARBON DIOXIDE,FOAM,DRY CHEMICAL,WATER FOG.

SPECIAL FIRE FIGHTING SELF CONTAINED BREATHING APPARATUS SHOULD BE USED. PROCEDURES.

UNUSUAL FIRE OR EXPLOSION HAZARDS: CLOSED CONTAINERS EXPOSED TO HEAT AIR. WATER TO PREVENT

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MATERIAL SAFETY DATA

OCEAN NETWORK EMERGENCY PHONE 1-800-OLIN-911

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD,29 CFR 1910.1200.THIS PRODUCT MAY BE CONSIDERED TO BE A HAZARDOUS CHEMICAL UNDER THAT STANDARD.(REFER TO THE OSHA CLASSIFICATION IN SEC.I.)THIS INFORMATION IS REQUIRED TO BE DISCLOSED FOR SAFETY IN THE WORKPLACE.THE EXPOSURE TO THE COMMUNITY,IF ANY,IS QUITE DIFFERENT.

I. PRODUCT IDENTIFICATION

REVISION NO : 9
REVISION DATE : 1/22/93
PRODUCT CODE : HPE880121
FILE NUMBER : HPE00029.0001
PRODUCT NAME: HYDROFLUORIC ACID

SYNONYMS: Hydrogen fluoride, fluorohydric acid
CHEMICAL FAMILY: Inorganic acid
FORMULA: HF (Solution in water)
DESCRIPTION: Acid
OSHA HAZARD CLASSIFICATION: Corrosive, skin and eye hazard, lung toxin

II. COMPONENT DATA

PRODUCT COMPOSITION
CAS or CHEMICAL NAME: Hydrofluoric acid
CAS NUMBER: 7664-39-3
PERCENTAGE RANGE: 0.5-55.0%
HAZARDOUS PER 29 CFR 1910.1200: Yes
EXPOSURE STANDARDS:

	OSHA(PEL)		ACGIH(TLV)		OLIN	
	ppm	mg/cubic-meter as F:	ppm	mg/cubic-meter as F:	ppm	mg/cubic-meter
TWA:	3			None		None
CEILING:		None	3	2.5		None
STEL:	6			None		None

CAS or CHEMICAL NAME: Water
CAS NUMBER: 7732-18-5
PERCENTAGE RANGE: 45-99.5%
HAZARDOUS PER 29 CFR 1910.1200: No
EXPOSURE STANDARDS: None Established

III. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WAS OFF WITH WATER.
STORAGE CONDITIONS: Store in a cool, dry, well ventilated area.
DO NOT STORE AT TEMPERATURES ABOVE: 38 Deg.C (100 Deg.F)
PRODUCT STABILITY AND COMPATIBILITY:
SHELF LIFE LIMITATIONS: 1 Year in polyethylene bottles
INCOMPATIBLE MATERIALS FOR PACKAGING: Glass
INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Refer to Incompatible Materials, Section VII.

IV. PHYSICAL DATA

APPEARANCE: Colorless liquid
FREEZING POINT: < 0 Deg.C (<32 Deg.F)
BOILING POINT: 95-115 Deg.C (203-239 Deg.F)
DECOMPOSITION TEMPERATURE: No Data
SPECIFIC GRAVITY: 1.002-1.153
BULK DENSITY: 1.002-1.153 (g/cc)
pH @ 25 DEG.C: < 2 (1% Solution)
VAPOR PRESSURE @ 25 DEG.C: No Data
SOLUBILITY IN WATER: Complete
VOLATILES, PERCENT BY VOLUME: 100%
EVAPORATION RATE: No Data
VAPOR DENSITY: No Data
MOLECULAR WEIGHT: 20.01 (Active ingredient)
ODOR: Irritating
COEFFICIENT OF OIL/WATER DISTRIBUTION: No Data

V. PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:
RESPIRATORY PROTECTION: Wear a NIOSH/MSHA approved respirator if any exposure occurs.

VENTILATION: Use local exhaust ventilation to maintain levels to below the TLV.

SKIN PROTECTIVE EQUIPMENT: Wear gloves, boots, apron and a face shield with safety glasses. A full impermeable suit is recommended if exposure is possible to large portion of body.

OTHER: Emergency eye wash and safety showers must be provided in the immediate work area.

Material Safety Data Sheet for B/L number 1998-87652/01
LIMCO LIMCO-AIREPAIR, INC.

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Nitric acid 42 Be
HCI PRODUCT ID NUMBER: 02008
SYNONYMS: None
CHEMICAL FAMILY NAME: acids, inorganic

NFPA HAZARD RATINGS (H-F-R): 4-0-0
HMIS HAZARD RATINGS (H-F-R): 4-0-0

DISTRIBUTOR: HCI U.S.A. DISTRIBUTION COMPANIES, INC.
TECHNICAL RESOURCE CENTER
6529 S. BROADWAY
ST. LOUIS, MO 63111
(314) 353-6500

IN CASE OF EMERGENCY CALL: CHEMTREC 1-800-424-9300

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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PERCENT
Nitric acid	007697-37-2	67.18

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

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3. HAZARDS IDENTIFICATION

********** EMERGENCY OVERVIEW **********

Danger!
Liquid is corrosive to eyes and skin.
Harmful if inhaled.
Harmful or fatal if swallowed.

Continued

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Clear, colorless, fuming
ODOR:	Sharp & pungent
MOLECULAR WEIGHT:	N/AV
SPECIFIC GRAVITY:	1.4 @ 60 F
SOLUBILITY (IN WATER):	Soluble
BOILING POINT:	250 F 121.1 C
FREEZING POINT:	N/AV
MELTING POINT:	N/AV
PRODUCT pH (@ 23 C):	N/AV
VAPOR PRESSURE:	5.5mmHg @ 20 C
VAPOR DENSITY:	1.7
EVAPORATION RATE (BUTYL ACETATE=1):	< ether
% VOLATILES:	<40%

10. STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable

COND. TO AVOID: None known

INCOMPATIBILITY: Organic materials, reducing agents, strong alkalies

DECOMPOSITION: Combustion generates acid vapors.
Combustion generates toxic oxides of nitrogen.

POLYMERIZATION: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE EFFECTS

This material is highly toxic by inhalation
Medical conditions aggravated include respiratory problems, skin disorders and allergies.
LC50: 49 ppm/4 hour(s) - inhalation - rat
LC50: 2500 ppm/1 hour(s) - inhalation - rat
LD50: 50-500 mg/kg - oral - unspecified species
LDLo: 430 mg/kg - oral - human
LDLo: 110 mg/kg - unreported - man
TCLo: 1071 ug/m3/24 hour(s)-84 day(s) continuous inhalation - rat

Continued

PARKER + AMCHEM

HENKEL CORPORATION
32100 Stephenson Hwy
Madison Heights, Michigan 48071

MATERIAL SAFETY DATA SHEET

DATE: 06/09/94 234115

I. MATERIAL IDENTIFICATION

PRODUCT TRADE NAME: ALODINE® 1200

TECHNICAL CONTACT: Regulatory Affairs Department
TELEPHONE NUMBER: (810) 583-9300 EMERGENCY NUMBER: (800) 424-9300

II. HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	TLV/ACGIH	PEL/OSHA	% Weight
Sodium Fluoborate	13755-29-8	**	**	30 - 60
*Chromic Acid, Dry	01333-82-0	See below	See below	20 - 50
Potassium Fluozirconate	16923-95-8	See below	See below	5 - 15
Potassium Ferricyanide	13746-66-2	None	None	10 - 30

* Refer to Section XII.
**TLV/PEL = 2.5 mg/m^3 for fluorides, as F.

Chromic Acid: TLV = 0.5 m/m^3
PEL = C 0.1 mg/m^3

Potassium Fluozirconate: TLV = 2.5 mg/m^3 for F.
5 mg/m^3 for Zr, STEL = 10 mg/m^3

PEL = 2.5 mg/m^3 for F.
5 mg/m^3 for Zr, STEL = 10 mg/m^3

EMERGENCY OVERVIEW: Orange powder. Contact causes eye and skin burns.
Carcinogen - contains chromic acid.

III. PHYSICAL PROPERTIES

APPEARANCE & ODOR: Orange powder; bland odor.
SPECIFIC GRAVITY: N/A
BOILING POINT F (C): N/A (N/A)
EVAPORATION RATE: N/A

Continued

pH:	N/A
VAPOR DENSITY (AIR = 1):	N/A
SOLUBILITY IN WATER:	Appreciable
VAPOR PRESSURE:	N/D
VOC:	N/A

N/A = Not Applicable
N/D = Not Determined

IV. FIRE AND EXPLOSION HAZARDS

FLASH POINT F (C): N/A (N/A) METHOD USED: N/A
EXTINGUISHING MEDIA:
As required to extinguish surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:
Wear positive pressure self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS:
Clothing contaminated with the chemical is dangerously flammable. Immediately remove and rinse thoroughly with water. Contact with combustible material may cause fire. Under conditions of extreme heat and fire potassium ferricyanide may emit toxic cyanide fumes.

V. REACTIVITY DATA

STABILITY:
Stable

CONDITIONS TO AVOID:
None Expected.

INCOMPATIBILITY (MATERIALS TO AVOID):
Organic materials, paint thinners or reducing agents.

Keep separate from alkalies.
HAZARDOUS DECOMPOSITION:
Thermal decomposition may produce hydrogen fluoride.
May form hydrocyanic gas.

HAZARDOUS POLYMERIZATION: Will Not Occur

VI. HEALTH HAZARD INFORMATION

Continued

TURCO PRODUCTS, INC.
MATERIAL SAFETY DATA SHEET

PENNWALT

A12268

DO NOT DUPLICATE

4215-40 jr

SECTION I — PRODUCT NAME: Turco 4215 NC-LT

Manufacturer's Name:	**TURCO PRODUCTS, INC.**
Address:	**7300 Bolsa Ave., Westminster, CA 92684-3600**
Emergency Telephone No.:	**(614) 387-6200 Info. Tel. No. (714) 890-3600**

SECTION II — HAZARDOUS INFORMATION:

COMPONENTS	C.A.S. Number	CERCLA RQ SPILL lbs.	RCRA Waste No.	ACGIH TLV	OSHA TWA	%. WT.
Sodium tetraborate pentahydrate	1330434	NtLstd	NtLstd	1 mg/m³	Nt Estab	45
Sodium tripoly phosphate	13573187	NtLstd	NtLstd	Nt Estab	Nt Estab	35
Sodium silicofluoride	16893859	NtLstd	NtLstd	25mg/m³(F)	Nt Estab	1(F)
Nonyl phenol Polyethylene glycol ether*	26027383	NtLstd	NtLstd	Nt Estab	Nt Estab	5
*listed as irritant only						

CARCINOGENS (As defined in 29CFR 1910-1200)	NTP	IARC	OSHA
Contains no components defined to be carcinogens	Not listed	Not listed	Not regulated

PROPER SHIPPING NAME:	HAZARD CLASS:	HAZARD I.D. No.:
Not a DOT hazardous material	Not regulated	None

SECTION III — PHYSICAL DATA:

BOILING POINT, °F:	Not applicable	SPECIFIC GRAVITY:	Not applicable
VAPOR PRESSURE (mmHg):	Not applicable	VOLATILE, % BY VOL.:	Not applicable
VAPOR DENSITY (AIR = 1):	Not applicable	EVAPORATION RATE (Bu. Ac. = 1):	Not applicable
APPEARANCE AND ODOR: White free flowing powder, mild odor		SOLUBILITY IN WATER: Appreciable pH of 3% Soln: 8-10	

SECTION IV — FIRE AND EXPLOSION HAZARDS:

FLASH POINT AND METHOD USED:
Not applicable - Nonflammable

EXTINGUISHING MEDIA:
Not applicable

SPECIAL FIRE FIGHTING PROCEDURE AND PRECAUTIONS:
Use self-contained respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

SECTION V — HEALTH, EMERGENCY AND FIRST AID INFORMATION:

EFFECTS OF OVER EXPOSURE: EYES:
Contact with eyes may cause moderate to severe irritation.

SKIN:
May cause moderate to severe irritation.

INHALATION:
Inhalation of product dust or mist from solution may cause moderate to severe irritation of respiratory tract.

INGESTION:
Moderate to severe irritation of gastrointestinal tract.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:
None known

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5970-5

TURCO PRODUCTS
MATERIAL SAFETY DATA SHEET

RECEIVED MAR 2 1 1986

HAZARD RATING
4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT
* = CHRONIC HEALTH HAZARD — SEE SECTION V

Fire 0 Reactivity
Toxicity 1 0 Special

ISSUE DATE: 1/3/86 211 C*

SECTION I — PRODUCT NAME: [redacted]

Manufacturer's Name: TURCO PRODUCTS
Address: 24800 So. Main Street, Carson, CA 90748
Emergency Telephone No.: (213) 834-3300

SECTION II — HAZARDOUS INFORMATION:

COMPONENTS	C.A.S. Number	CERCLA RQ SPILL #	RCRA Waste #	ACGIH TLV	OSHA TWA	%, WT.
Dimethyl Sulfoxide*	67685	NtLstd	NtLstd	Nt Estab.	Nt Estab.	75
*Listed because of irritant properties only See Section IX						

CARCINOGENS	NTP	IARC	OSHA
None	N. Apl.	N. Apl.	N. Apl.

PROPER SHIPPING NAME.	HAZARD CLASS	HAZARD I.D. No.
Liquid Cleaning Compound NOS	Not Regulated	Not regulated

SECTION III — PHYSICAL DATA:

BOILING POINT, °F:	Approx. 212°F	SPECIFIC GRAVITY:	1.10
VAPOR PRESSURE (mmHg):	Approx. 25	VOLATILE, % BY VOL.:	100
VAPOR DENSITY (AIR = 1):	More than 1	EVAPORATION RATE (Bu. Ac. = 1):	Below 1
APPEARANCE AND ODOR:	Clear colorless liquid, mild garlic odor	SOLUBILITY IN WATER: pH	Complete Approx. 7

SECTION IV — FIRE AND EXPLOSION HAZARDS:

FLASH POINT AND METHOD USED:
More than 200°F T.C.C. 1

EXTINGUISHING MEDIA:
Not applicable

SPECIAL FIRE FIGHTING PROCEDURE AND PRECAUTIONS:
Use self-contained respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

2

SECTION V — EMERGENCY, FIRST AID AND HEALTH INFORMATION:

EFFECTS OF OVER EXPOSURE: EYES:
Contact with eyes may cause moderate to severe irritation.

SKIN:
May cause moderate irritation to sensitive skin.

INHALATION: Not applicable under normal conditions of use.

INGESTION:
Moderate to severe irritation of gastrointestinal tract.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:
None known

RECEIVED
APR 23 1999
DEPT. OF ENVIRONMENTAL QUALITY
REGIONAL OFFICE AT TULSA

CHECK NO.	CHECK DATE	VENDOR NO.
21663	04/23/99	ODEQ

LIMCO Airepair, Inc. & Aeroduct
5304 S. Lawton Ave.
Tulsa, Oklahoma 74107
(918) 445-4300 • Fax (918) 446-2988

CHECK NO. 021663

NationsBank, N.A.
Oklahoma City, OK

39-1
1030

CHECK AMOUNT
$******750.00

SEVEN HUNDRED FIFTY AND 00/100 DOLLARS

PAY TO THE ORDER OF

DEPT. OF ENVIROMENTAL QUALITY
FINANCIAL& HUMAN RESOURCES MGT
P.O. BOX 2036
OKLAHOMA CITY OK 73101
USA

AUTHORIZED SIGNATURE

⑈021663⑈ ⑆103000017⑆ 070108354944⑈

RECEIPT DATE 4-23-99 NO. 1271

RECEIVED OF Limco Airepair, INC.

ADDRESS

Seven Hundred fifty Dollars 00/100 $ 750.00

FOR Air Permit # 99-026-O

ACCOUNT		
AMT. OF ACCOUNT		
AMT. PAID		
BALANCE DUE		

○ CASH
⊘ CHECK
○ MONEY ORDER

BY Linda Gentry

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Limco Airepair

RECEIVED
JUL 31 2015
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

July 29, 2015

Attn: Al Coulter
Oklahoma Department of Environmental Quality
Land Protection Division
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Amendment to Disposal Plan 728097

Dear Mr. Coulter:

Enclosed are changes to disposal plan 728097:

1. Waste stream 15189: TSD facility ARD981057870 has been added; changed monthly amount produced to 481 lbs. month.
2. Waste stream 15251: TSD facilities ARD981057870 and ARD069748192 have been added.
3. Waste stream 15252: TSD facility ARD981057870 has been added
4. Waste stream 15256: TSD facility ARD981057870 has been added
5. Waste stream 18474: TSD facility ARD981057870 has been added
6. Waste stream 24432: TSD facilities ARD981057870 and ARD069748192 have been added.
7. Waste stream 1401001: No change

Please feel free to give me a call at (918) 445-4300.

Sincerely,

Bill Williams
Facility Maintenance, Environmental, & Safety Manager

224444 CD___ #c 1 c/o th

A. Carter

DISPOSAL

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 15189

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maint./Env. Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name TCE From Parts Degreasing

EPA-Waste Code(s) D040 F001

Amount of Waste Produced
No. of Lbs. Frequency

Physical ☑ Liquid ☐ Sludge ☐ Solid ☐ Layered

Chemical ☐ Ignitable (Flashpoint ____ °F) ☐ Corrosive (pH _____) ☐ Reactive

481 ☐ Day ☐ Week ☑ Month ☐ Year

☐ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

Trichloroethylene waste from vapor degreaser.

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089

Mailing address P.O. Box 729 City Benton State AR Zip 72018

Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 7-30-15
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 15251

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maint./Env. Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name Waste Paint and Waste Solvents/Oils

EPA-Waste Code(s) D001 D035 F003 F005

Amount of Waste Produced
No. of Lbs. Frequency

2,140 ☐ Day ☐ Week ☑ Month ☐ Year

Physical ☑ Liquid ☐ Sludge ☐ Solid ☐ Layered

Chemical ☑ Ignitable (Flashpoint <140 °F) ☐ Corrosive (pH =) ☐ Reactive

☐ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

Painting of aircraft parts, cleaning and wipe down of parts using methyl ethyl ketone mineral spirits, isopropyl alcohol, and toluene

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089
Mailing address P.O. Box 729 City Benton State AR Zip 72018
Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 7-30-15
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101
DISPOSAL PLAN APPLICATION CONTINUATION PAGE

Generator EPA I.D. No.: OKR000000612
Waste Stream No.: 15251

TSD INFORMATION
Site receiving waste Clean Harbors El Durado, LLC Telephone (870) 863 7173
Mailing address 309 American Circle City El Dorado State AR Zip 71730
Site location 309 American Circle El Dorado AR EPA ID ARD069748192

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

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Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 15252

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maintenance Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name Stream #: 15252---Paint Filters from Paint Booths

EPA-Waste Code(s) D007

Amount of Waste Produced
No. of Lbs. Frequency

Physical ☐ Liquid ☐ Sludge ☑ Solid ☐ Layered

50 ☐ Day ☐ Week ☑ Month ☐ Year

Chemical ☐ Ignitable (Flashpoint ____ °F) ☐ Corrosive (pH = _____) ☐ Reactive

☐ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

Filters from Paint Booths

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089

Mailing address P.O. Box 729 City Benton State AR Zip 72018

Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 7-30-15
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 15256

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maintenance Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name Sludge from Cleaning Tanks

EPA-Waste Code(s) D006 D007

Amount of Waste Produced
No. of Lbs. Frequency

50 ☐ Day ☐ Week ☑ Month ☐ Year

Physical ☐ Liquid ☑ Sludge ☐ Solid ☐ Layered

Chemical ☐ Ignitable (Flashpoint ____ °F) ☐ Corrosive (pH = _____) ☐ Reactive

☐ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

Tanks for cleaning airplane parts will periodically required the sludge to be cleaned out.

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089
Mailing address P.O. Box 729 City Benton State AR Zip 72018
Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 7-30-15
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 18474

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maintenance Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name Stream #: 18474—Alodine Wash

EPA-Waste Code(s) D003 D007

Amount of Waste Produced
No. of Lbs. Frequency

50 ☐ Day ☐ Week ☑ Month ☐ Year

Physical ☑ Liquid ☐ Sludge ☐ Solid ☐ Layered

Chemical ☐ Ignitable (Flashpoint ____ °F) ☐ Corrosive (pH = _____) ☑ Reactive

☐ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

Used to Dip Aircraft Parts for Cleaning

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089
Mailing address P.O. Box 729 City Benton State AR Zip 72018
Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 7-30-15
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A ☑ CONTINUOUS ☐ ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKR000000612

☐ New Plan ☑ Amendment to Disposal Plan ☐ Amendment to existing waste stream No.: 24432

Business/Plant Name LIMCO AIREPAIR INC

Plant Address/Location 5304 South Lawton City Tulsa State OK Zip 74107

Mailing Address 5304 South Lawton Avenue City Tulsa State OK Zip 74107

Plant Contact Bill Williams Title Maint/Env. Manager Telephone 918-445-4300

DETAILED WASTE DESCRIPTION

Waste-Name Stream #: 24432----Waste Acids

EPA-Waste Code(s) D002 D004 D006 D007

Amount of Waste Produced
No. of Lbs. Frequency

521 ☐ Day ☐ Week ☑ Month ☐ Year

Physical ☑ Liquid ☐ Sludge ☐ Solid ☐ Layered

Chemical ☐ Ignitable (Flashpoint ____ °F) ☐ Corrosive (pH =,2.0) ☐ Reactive

☐ **Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.**

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

A mixture of nitric acid and ammonium biflouride is used to Dip Aircraft Parts for Cleaning.

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste RINECO Telephone (501) 778-9089
Mailing address P.O. Box 729 City Benton State AR Zip 72018
Site location 1007 Vulcan RD Benton, Arkansas EPA ID No ARD981057870

CERTIFICATION

The above information is accurate to the best of my knowledge. **I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.**

Signature _____ Date 7-30-15
Person in charge of plant or plant contact

Typed or printed name of signer Bill Williams

Oklahoma Generators Only. List county where waste is Generated: Tulsa

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION
(405) 702-5100 /Fax (405) 702-5101
DISPOSAL PLAN APPLICATION CONTINUATION PAGE

Generator EPA I.D. No.: OKR000000612
Waste Stream No.: 24432

TSD INFORMATION
Site receiving waste Clean Harbors El Durado, LLC Telephone (870) 863 7173
Mailing address 309 American Circle City El Dorado State AR Zip 71730
Site location 309 American Circle El Dorado AR EPA ID ARD069748192

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

TSD INFORMATION
Site receiving waste _____ Telephone ( ) _____
Mailing address _____ City _____ State ____ Zip _____
Site location _____ EPA ID _____

DEQ QUARTERLY REPORT FORM

RECEIVED
JUL 27 2015
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for Instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2015

For the quarter ending in (check one below):

March X June September December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount In Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	2754	H061
15251	ARR000016733	ARD981057870	5049	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5508	H141
15189	ARR000016733	ARD069748192	860	H141
		Total Amount this page:	14171	

QB 7-28-15

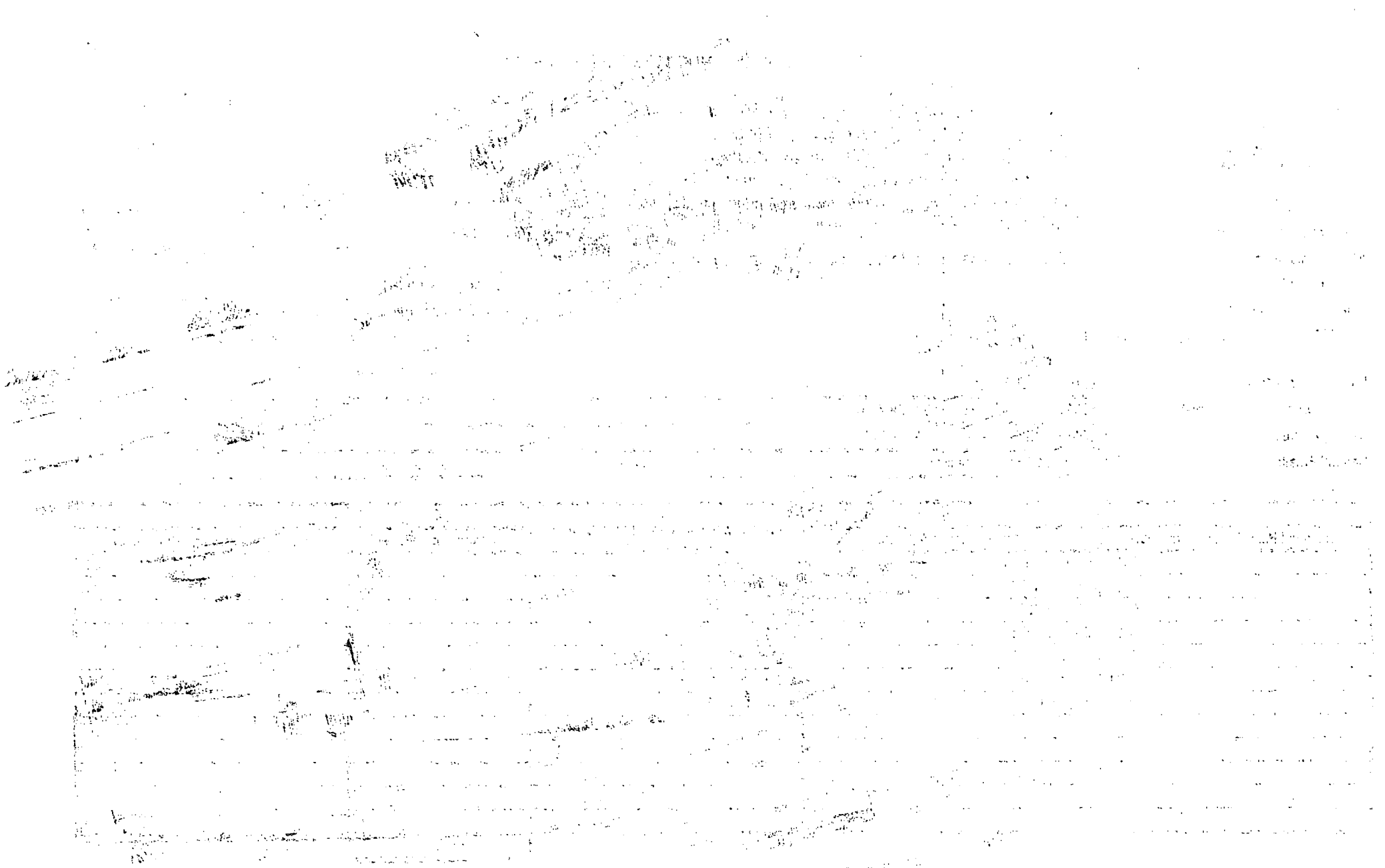
I hereby certity that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams

Date: 7-22-15

Typed Name of Authorized Agent: Bill Williams

Title: Director of Facilities, Maintenance and EHS



224374 CD___ #c 1 c/o TR

RCRA Disposal Plans

Limco Airepair

July 22, 2015

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

DEQ QUARTERLY REPORT FORM

VED
APR 24 2015
TION DIVISION
IRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Allcia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2015

For the quarter ending in (check one below):

X March June September December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Malling Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount In Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	1644	H061
15251	ARR000016733	ARD981057870	5920	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5843	H141
		Total Amount this page:	13407	

I hereby certity that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams **Date:** 4-22-15

Typed Name of Authorized Agent: Bill Williams **Title:** Director of Facilities, Maintenance and EHS

223273 CD__ #c 1 c/o IR

RCRA Disposal Plans

LIMCO Airepair, Inc.

April 22, 2015

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

Limco Airepair

RECEIVED
AUG 03 2015
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

July 30, 2015

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is a "corrected" the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300. The last entry of column has been changed from stream number 15189 to stream number 15251.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

224461 CD___ #c 2 1 c/o TK

RCRA Disposal Plans

DEQ QUARTERLY REPORT FORM

CORRECTED

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Diepoeal Plan No.: 728097

Reporting Calendar Year: 2015

For the quarter ending in (check one below):

March X June September December

Businees/Plant Name: LIMCO AIREPAIR, INC

Buelnese/Plant Phyiecal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Addrese: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Dieposal Plan Waste Stream No.	**Transporter EPA ID No.**	**Treatment, Storage, Disposal, Recycling Facility EPA ID No.**	**Amount in Pounde**	**Handling Codes and Comments**
15189	ARR000016733	ARD981057870	2754	H061
15251	ARR000016733	ARD981057870	5049	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5508	H141
15251	ARR000016733	ARD069748192	860	H141
		Total Amount thie page:	14171	

DCB 8-21-2015

I hereby certity that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams **Date:** 7-30-15

Typed Name of Authorized Agent: Bill Williams **Title:** Director of Facilities, Maintenance and EHS

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Company Mailing Address	STREET: 5304 S LAWTON AVE		
	CITY: TULSA	STATE: OK	ZIP: 74107
Facility Physical Address	STREET: 5304 S LAWTON AVE		
	CITY: TULSA	STATE: OK	ZIP: 74107
Status:	Active		
NAICS:	332912		
SIC:	3728		
TRI:			

Issued Permit:	Date Issued;
99-026-O M-2	2004-05-24

Responsible Official

Name: BILL WILLIAMS
Phone: (918) 445-4300
Fax: (918) 446-8704
Email: billw@limcoairepair.com

Facility Contact

Name: BILL WILLIAMS
Phone: (918) 445-4300
Fax: (918) 446-8704
Email: billw@limcoairepair.com

Notes from DEQ to Facility

Notes from Facility to DEQ

Facility Location: Legal Description

County: TULSA
Sec Loc:
Section: 35
Town: 19N
Range: 12E

Geographic Coordinates

Latitude: 35.95011
Longitude: -95.88902

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
1	16499	Wipedown

Notes	Unit Type	Status	Latitude	Longitude
	Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 16564 — **Name: Wipedown Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1	4

Process Data

Process ID: 59735 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0020	0.0390	**12.14**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: 9.03 **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 9.50 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name			
2	16500	Vapor Degreaser			
Notes	**Unit Type**		**Status**	**Latitude**	**Longitude**
	Other evaporative sources		Operating	35.950110	-95.889020

Emission Release Point ID: 16565 — **Name: Vapor Degreaser Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
12.5	5

Process Data

Process ID: 59736 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0010	0.0080	**2.74**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units** — *N/A - Formula, Software, or CEMS — **Denominator Units**

Reference: — Factor Includes Control Efficiency? —

Trace — (<0.001 tons)

Total Actual Emissions: **0.70** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 3 **Tons/Year**

Pollutant: *Trichloroethylene* — **CAS Number:** 79016

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units** — *N/A - Formula, Software, or CEMS — **Denominator Units**

Reference: — Factor Includes Control Efficiency? —

Trace — (<0.001 tons)

Total Actual Emissions: **0.70** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Vapor Recovery Unit — **Primary Efficiency (%):** 99 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 3.20 **Tons/Year**

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
3	16501	Paint Booth

Notes	Unit Type	Status	Latitude	Longitude
	Spray Booth or Coating Line	Operating	35.950050	-95.889020

Emission Release Point ID: 16566 — **Name: Paint Booth Exhaust** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
8	6

Process Data

Process ID: 59737 **SCC:** 40200101 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Surface Coating Operations, Surface Coating Application - General, Paint: Solvent-base

Process Material: Paint

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0	0.0030	**1.04**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.2870** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.56 **Tons/Year**

Pollutant: *Ethylbenzene* — **CAS Number:** 100414

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.0190** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: *Methyl isobutyl ketone* **CAS Number:** 108101

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	Numerator Units	(<0.001 tons)	0.0080 Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: *Toluene* **CAS Number:** 108883

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	Numerator Units	(<0.001 tons)	0.0060 Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

Pollutant: *Xylenes (mixed isomers)* **CAS Number:** 1330207

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	Numerator Units	(<0.001 tons)	0.0980 Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0	Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
4	17194	Dip Coating		Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 279 — **Name: Degreasing Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters					Fugitive Release Point Parameters	
Gas Exit Vel. (ft/s)	**Height (ft)**	**Diameter (ft)**	**Temp (F)**	**Flow Rate (acfm)**	**Fugitive area(sqft)**	**Fugitive Ht. (ft)**
0	0	0	0	0	3	5

Process Data

Process ID: 59738 **SCC:** 40100399 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Cold Solvent Cleaning/Stripping, Other Not Classified

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0020	0.0290	**9.10**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units** — *N/A - Formula, Software, or CEMS — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **5.4670** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 5.4670 **Tons/Year**

Pollutant: *Ethylbenzene* — **CAS Number:** 100414

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units** — *N/A - Formula, Software, or CEMS — **Denominator Units**

Reference: — Factor Includes Control Efficiency? ☐

Trace ☐ (<0.001 tons)

Total Actual Emissions: **0.0170** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Secondary Control Device:** * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: *Toluene* **CAS Number:** 108883

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	Numerator Units	(<0.001 tons)	5.0520 Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions
0	* Uncontrolled	0	0 Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 5.10 Tons/Year

Pollutant: *Xylenes (mixed isomers)* **CAS Number:** 1330207

Calculation Method	EmissionFactor			Trace	Total Actual Emissions
Mass Balance	0	*N/A - Formula, Software, or CEMS	Numerator Units	(<0.001 tons)	0.3980 Tons
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	Denominator Units		

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions
0	* Uncontrolled	0	0 Tons
	Secondary Control Device: * Uncontrolled	Secondary Efficiency (%): 0	Amount allowed: 0 Tons/Year

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name			
5	18608	Testing			
Notes	**Unit Type**		**Status**	**Latitude**	**Longitude**
	Other evaporative sources		Operating	35.950110	-95.889020

Emission Release Point ID: 18426 — **Name: Testing Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
4	5

Process Data

Process ID: 59739 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0	0.0030	**1.04**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.7080** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 2.50 **Tons/Year**

Pollutant: *Xylenes (mixed isomers)* — **CAS Number:** 1330207

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.0420** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT **COMPANY ID: 1687**
FACILITY NAME: 5304 S LAWTON AVE **FACILITY ID: 3620**

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Total VOC		16.1920	
Ethylbenzene	100414	0.0360	Y
Methyl isobutyl ketone	108101	0.0080	Y
Toluene	108883	5.0580	Y
Trichloroethylene	79016	0.70	Y
Xylenes (mixed isomers)	1330207	0.5380	Y

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS

2014 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT

"I certify:
(a) That I am the Responsible Official for LIMCO AIREPAIR INC AND AERODUCT as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ **Date:** _____ **Title:** _____

Limco Airepair

RECEIVED
NOV 16 2015
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

November 13, 2015

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

225725 CD___ #c 1 c/o T.U.

RCRA Disposal Plans

DEQ QUARTERLY REPORT FORM

CORRECTED

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2015

For the quarter ending in (check one below):

March June X September December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount in Pounds	Handling Codes and Comments
15189	KS0000336891	ARD981057870	2295	H141
15251	KS0000336891	ARD981057870	8721	H061
18474	KS0000336891	ARD981057870	0	
24432	KS0000336891	ARD069748192	0	
24432	KS0000336891	ARD981057870	0	
1401001	KS0000336891	ARD981057870	0	H141
15251	KS0000336891	ARD069748192	0	H141
		Total Amount this page:	11016	

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams **Date:** 11-13-15

Typed Name of Authorized Agent: Bill Williams **Title:** Director of Facilities, Maintenance and EHS

See Page 4 for Instructions

RECEIVED
JAN 15 2014
ECLS

DEQ FORM 605-006
Sept. 5, 2011

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.
OPDES Permit Authorization Number: OKR050659

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 1-9-2014

Signature: Bill Williams Title: Director of Facilities

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2013

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
1-29-13	None		
4-2-13	NONE		
8-12-13	NONE		
10-30-13	NONE		

✓ What must you do to correct the deficiencies that remain uncorrected?

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☐ No ☐ All BMPs were being implemented ☒

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ☐ No ☒

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges at all the facilities during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)

Yes ☐ No ☐ Number 3

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?

Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?

Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

✓ Is there any required revisions to the SWP3 resulting from the inspection?

Yes ☐ No ☒

Limco Airepair

RECEIVED
JAN 21 2016
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

January 13, 2016

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

RECEIVED

JAN 21 2016

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEQ QUARTERLY REPORT FORM

CORRECTED

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for Instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2015

For the quarter ending in (check one below):

March June September X December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Physical Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoalrepair.com Direct Contact Phone: 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount in Pounds	Handling Codes and Comments
15189	KS0000336891	ARD981057870	1836	H141
15251	KS0000336891	ARD981057870	10557	H061
18474	KS0000336891	ARD981057870	0	
24432	KS0000336891	ARD069748192	0	
24432	KS0000336891	ARD981057870	0	
1401001	KS0000336891	ARD981057870	5508	H141
15251	KS0000336891	ARD069748192	0	H141
		Total Amount this page:	17901	

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams Date: 1-13-16

Typed Name of Authorized Agent: Bill Williams Title: Director of Facilities, Maintenance and EHS

226586 CD___ #c001 c/o TK

RCRA Disposal Plans

See Page 4 for Instructions

DEQ FORM 605-006 Sept. 5, 2011

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR051059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 1-8-16

Signature: Bill Williams Title: Director of Facilities

RECEIVED

JAN 21 2016

ECLS

SP 1-22-16

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2015

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many corrective actions (Part 4.2.17.3) to remove the original violation and document these actions according to corrective action deadlines?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
	None		

✓ What must you do to correct the deficiencies that remain uncorrected?

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☐ No ☐ All BMPs were being implemented ☒

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ Is there additional BMPs needed to address any conditions requiring corrective action?
Yes ☐ No ☒

✓ At any time during the reporting period, did you discover any previously unidentified illicit discharges from your facility or previously unidentified pollutants in the existing discharges?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges at all the facilities during the reporting year, and document the condition of and around the outfalls, including flow dissipation measures to prevent scouring? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)

Yes ☐ No ☐ Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?

Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?

Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

✓ Is there any required revisions to the SWP3 resulting from the inspection?

Yes ☐ No ☒

DISPOSAL PLAN APPLICATION FORM

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY LAND PROTECTION DI

PHONE: (405) 702-5100 FAX: (405) 702-5101

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY ...for a clean, attractive, prosperous Oklahoma

See Instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

DEQ Finance

MAR 01 2016

Application Date: 2/23/2016 **Generator EPA ID No.:** OKR000000612

Please Indicate Type of Plan: _____ **New Plan-mark ONE:** _____ **CONTINUOUS** (billed annually for plan renev

_____ **ONE TIME** (plan will expire in 12 months)

_____ **Amendment to Current Plan:** **Plan Number:** 728097

X **Amendment to Current Waste Stream:** **Waste Stream No.** 15189

FACILITY INFORMATION

Facility Name: LIMCO AIREPAIR INC

Facility Physical Address: 5304 SOUTH LAWTON (Address) TULSA (City) Oklahoma (State) 74017

Facility Mailing Address: SAME (Address) (City) (State)

Billing Address : (for Continuous Plans only AND if different from above) SAME (Address) (City) (State)

Facility Contact Person: BILL WILLIAMS **Facility Contact Phone:** 918.445.4300

Facility Contact Email: bwillliams@limcoairepair.com

DETAILED WASTE DESCRIPTION

Waste Name: TRICHLOROETHYLENE FROM PARTS DEGREASING

EPA Waste Codes: DOO1 DO35 D040 FOO2 FOO5

Waste Physical State: **Liquid:** X **Sludge:** _____ **Solid:** _____ **Layered:**

Amount Generated: **Yearly:** 8529

_____ **Laboratory analysis attached.** (Safety Data Sheets are acceptable for off-specification products only).

TULSA **Oklahoma Generators: Ide county waste is generated**

Process Generating Waste: Please describe, in detail, the process that generated the waste . See reverse for more instructions.

TRICHLOROETHYLENE WASTE FROM VAPOR DEGREASOR.
THE WASTE STREAM IS INTENDED FOR WASTE TCE, HOWEVER DUE TO POSSIBLE CONTAMINATION
WITH SOLVENTS (INADVERTANT MIXING OF ANOTHER SOLVENT WASTE STREAM,
ADDITIONAL WASTE CODES ARE LISTED, FOR METHYL ETHYLE KETONE, AND POTENTIAL
NON HALOGENATED SOLVENTS, EXAMPLE-TOLUENE

TSD INFORMATION (use continuation page if necessary)

Site Receiving Waste: RINECO TSD PHONE: 501-778-9089

Site Mailing Address: PO BOX 729 1007 VULCAN RD (Address) BENTON (City) AR (State) 72018

TSD EPA ID No.: ARD981057870 **TSD Phone:** 501 778 9089

CERTIFICATION

The above information is accurate to the best of my knowledge. I will only use those transporters registered with the state of Oklahoma t hazardous waste within the State of Oklahoma or to transport hazardous waste to an appropriate receiving facility in the State of Oklahor

BILL WILLIAMS

Print Name of Facility Contact or Person in Charge of Facility

Bill Williams

Signature

Limco Airepair

February 24, 2014

Attn: Al Coulter
Oklahoma Department of Environmental Quality
Land Protection Division
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Re: Amendment to Waste Stream 15189

Dear Mr. Coulter:

Enclosed is a waste stream modification to waste stream 15189, disposal plan 728097. Please feel free to give me a call at (918) 445-4300. The only change involves EPA waste codes being added/modified to the waste stream to be more inclusive of other solvents that could be inadvertently added to the trichloroethylene waste stream.

Sincerely,

Bill Williams
Facility Manager

[illegible]

Facility Manager
Bill Williams

Sincerely,

Richardson's lone waste stream.

Enclosed is a waste stream modification to waste stream 15189, disposal area 75807. Please feel free to give me a call at (918) 615-4200. The only change involves EPA waste codes being added modified in the waste stream to be more inclusive of other solvents that could be inadvertently added to the

Dear Mr. Coulter:

Re: Amendment to Waste Stream 15189

Oklahoma City, Oklahoma 73101-1017
P.O. Box 1017
Land Protection Division
Oklahoma Department of Environmental Quality
Mr. Al Coulter

February 26, 2014

(Domestic Mail Only; No Insurance Coverage Provided)

7001 0360 0001 3226 7460

LPD - Traci Kelly

Postage	$ 6.73
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	JAN 0 5 2016
Total Postag	$

RECEIVED

USPS 2016 Jan 4 2016 NO. 73102

Postmark Here

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

Sent To	LIMCO AIREPAIR, INC.
Street, Apt. N or PO Box N	BILL WILLIAMS 5304 S. LAWTONnull
City, State, Zi	TULSA, OK 74107

PS Form 3800 January 2001 See Reverse for Instructions

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A signature upon delivery
- A record of delivery kept by the Postal Service for two years

Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail or Priority Mail.
- Certified Mail is not available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a Return Receipt may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "Restricted Delivery".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete Item 4 If Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

LIMCO AIREPAIR, INC.
BILL WILLIAMS
5304 S. LAWTON AVE
TULSA, OK 74107

RECEIVED
JAN 08 2016
LAND PROTECTION
DEPARTMENT OF ENVIRONMENTAL QUALITY

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7003 0360 0001 3226 7460

PS Form 3811, July 2013 Domestic Return Receipt

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4® in this box•

Traci Kelly
DEQ Land Protection Division
707 N. Robinson
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
FEB 18 2016
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DECLARATION OF ELECTRONIC FILING OF THE 2015 ANNUAL HAZARDOUS WASTE REPORT

For the calendar year January 1, 2015, through December 31, 2015

~~Submit Date~~

EPA ID OKR000000612

Site/Company Name LIMCO AIREPAIR, INC.

Site Address 5304 S. LAWTON

City TULSA State OK Zip 74107

Mailing Address 5304 S. LAWTON

City TULSA State OK Zip 74107

Contact Name BILL WILLIAMS Phone No 9184454300 Ext

Contact Title DIRECTOR OF FACILITIES

Part I - Declaration of Filer

I certify under penalty of law that the information shown on my 2015 Hazardous Waste Report, which I filed electronically, and that this document and all attachments were prepared under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted, is correct and current. Based on my inquiry of the person or persons who manage the system or those directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties under Section 3008 of the Resource Conservation and Recovery Act for submitting false information, including the possibility of fine and imprisonment for known violations.

Part II- Signature of Certification

Last Name WILLIAMS First Name BILL Title DIR. OF FACILITIES, MAINTENANCE, AND EH&S

Signature Bill Williams Date 02/11/2016

Part III - Method of File Transmittal

____CD _X_ARM Web Site

** Note: This is not the 2015 Annual Hazardous Waste Report. Only file this form if you submitted your 2015 Annual Hazardous Waste Report electronically. This form alone does not constitute submittal of the 2015 Hazardous Waste Report but is required for all methods of electronic submission of the report.

Submit Date: 02/11/2016

227089 CD___ #c___ c/o TK

Send completed form to this address:	U.S. ENVIRONMENTAL PROTECTION AGENCY **RCRA SUBTITLE C SITE IDENTIFICATION FORM (2015)** The Appropriate State or EPA Regional Office

1. Reason for Submittal

MARK ALL BOX(ES) THAT APPLY

Reason for Submittal:

- ☐ To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location)
- ☐ To provide Subsequent Notification of Regulated Waste Activity (to update site identification information).
- ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application.
- ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____).
- ☒ As a component of the Hazardous Waste Report. (If marked, see sub-bullet below)
  - ☒ Site was a TSD facility and/or generator of >1,000 kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)

2. Site EPA ID Number

EPA ID Number: OKR000000612

3. Site Name

Name: LIMCO AIREPAIR, INC.

4. Site Location Information

Street Adress: 5304 S. LAWTON
City, Town, or Village: TULSA **County:** OK143
State: OK **Country** US **Zip Code:** 74107

5. Site Land Type

☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

6. NAICS Code(s) for the Site

A. 333415 **B.** **C.** **D.**

7. Site Mailing Address

Street or P. O. Box: 5304 S. LAWTON
City, Town, or Village: TULSA
State: OK **Country:** US **Zip Code:** 74107

8. Site Contact Person

First Name: BILL **MI:** **Last Name:** WILLIAMS
Title: DIRECTOR OF FACILITIES
Street or P. O. Box: 5304 S. LAWTON
City, Town, or Village: TULSA
State: OK **Country:** US **Zip Code:** 74107
Email : billw@limcoairepair.com
Phone: 9184454300 **Ext:** **Fax:**

9. Operator and Legal Owner of the Site

A. Name of Site's Owner: LIMCO AIREPAIR, INC. **Date Became Owner:** 10/01/1995
Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other
Street or P. O. Box: 5304 S. LAWTON
City, Town, or Village: TULSA **Phone** 9184454300
State: OK **Country:** US **Zip Code:** 74107

B. Name of Site's Operator: Limco Airepair, Inc. **Date Became Operator:** 10/01/1995
Type: ☒ Private ☐ County ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

10. Type of Regulated Waste Activity
Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities; Complete all parts 1-7.

Y☒ N☐ **1. Generator of Hazardous Waste**
If Yes, choose only one of the following - a, b, or c.

- ☒ a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs./mo.) or more of hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs./mo) of acute hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lbs./mo) of acute hazardous spill cleanup
- ☐ b. SQG:. 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or
- ☐ c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

If "Yes" above, Indicate other generator activities.

Y☐ N☒ 2 Short-Term Generator (generate from a short-term or onetime event and not from on-going processes). If "Yes", provide an explanation in the Comments

Y☐ N☒ 3. United States Importer of Hazardous Waste

Y☐ N☒ 4. Mixed Waste (hazardous and radioactive) Generator

Y☐ N☒ **5. Transporter of Hazardous Waste**
If Yes, mark all that apply.

- ☐ a. Transporter
- ☐ b. Transfer Facility (at your site)

Y☐ N☒ **6. Treater, Storer, or Disposer of Hazardous Waste (at your site)**
Note: A hazardous waste permit is required for this activity.

Y☐ N☒ **7. Recycler of Hazardous Waste (at your site)**

Y☐ N☒ **8. Exempt Boiler and/or Industrial Furnace**
If Yes, mark each that applies.

- ☐ a. Small Quantity On-site Burner Exemption
- ☐ b. Smelting, Melting, and Refining Furnace Exemption

Y☐ N☒ **9. Underground Injection Control**

Y☐ N☒ **10. Receives Hazardous Waste from Off-site**

B. Universal Waste Activities; Complete all parts 1-2.

Y☐ N☒ **1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site.**
If "Yes", mark all boxes that apply:

- a. Batteries ☐
- b. Pesticides ☐
- c. Mercury containing equipment ☐
- d. Lamps ☐
- e. Other (specify) _____ ☐
- f. Other (specify) _____ ☐
- g. Other (specify) _____ ☐

Y☐ N☒ **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this

C. Used Oil Activities; Complete all parts 1-4.

Y☐ N☒ **1. Used Oil Transporter**
If Yes, mark each that applies.

- ☐ a. Transporter
- ☐ b. Transfer Facility

Y☐ N☒ **2. Used Oil Processor and/or Re-refiner**
If Yes, mark each that applies.

- ☐ a. Processor
- ☐ b. Re-refiner

Y☐ N☒ **3. Off-Specification Used Oil Burner**

Y☐ N☒ **4. Used Oil Fuel Marketer**
If Yes, mark each that applies.

- ☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
- ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

D. **Eligible Academic Entities with Laboratories-Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K**

You must check with your State to determine if you are eligible to manage laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K

☐ 1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories
See the item-by-item Instructions for definitions of types of eligible academic entities. Mark all that apply:

- ☐ a. College or University
- ☐ b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university
- ☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

☐ 2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

11. Description of Hazardous Wastes

A. Waste Codes for Federally Regulated Hazardous Wastes.

Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D001, D002, D003, D004, D006, D007, D035, D040, F001, F003, F005

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes.

Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

EPA ID Number: OKR000000612

12. Notification of Hazardous Secondary Material (HSM) Activity

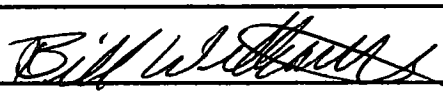
Y☐ N☒ Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?

If "Yes", you must fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.

13. Comments

14. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Operator, Owner, or an Authorized Representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	BILL WILLIAMS, DIR. OF FACILITIES, MAINTENANCE, AND EH&S	02/11/2016

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER
SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2015 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
TCE FROM PARTS DEGREASING (DISPOSAL PLAN 728097, STREAM 15189)

B. EPA hazardous waste code
D001 D035 D040 F002 F005

C. State hazardous waste code

D. Source code G01
Management method code for source code G25

E. Form code
W204

F. Quantity generated in 2015
8529.0
UOM Pounds
Density ☐ 1 lbs/gal ☐ 2 sg

G. Waste minization code
A

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1
☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Total quantity treated, disposed, or recycled On-site in 2015

SEC. 3

A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2015
SITE 1	ARD981057870	H061	4,398.00
SITE 2	ARD981057870	H141	4,131.00

Comments:

WASTE TRICHLOROETHYLENE/METHYL ETHYL KETONE

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER
SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2015 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
WASTE PAINT AND WASTE SOLVENTS/OILS (DISPOLAL PLAN 728097, STREAM NUMBER 15251)

B. EPA hazardous waste code	C. State hazardous waste code
D001 D035 F003 F005	

D. Source code / Management method code for source code	E. Form code	F. Quantity generated in 2015	G. Waste minization code
G06 / G25	W219	9127.0 UOM Pounds Density ☐ 1 lbs/gal ☐ 2 sg	A

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1
☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Total quantity treated, disposed, or recycled On-site in 2015

SEC. 3

A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2015
SITE 1	ARD981057870	H061	9,127.00

Comments:

WASTE PAINT, SOLVENTS, METHYLETHYL KETONE, NAPTHA, EPOXY

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER
SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2015 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
ALKALINE WASTE (OKLAHOMA DISPOSAL PLAN 728097/WASTE STREAM 1401001)

B. EPA hazardous waste code	C. State hazardous waste code
D002	

D. Source code	E. Form code	F. Quantity generated in 2015	G. Waste minization code
G02 Management method code for source code G25	W316	16859.0 UOM Pounds Density ☐ 1 lbs/gal ☐ 2 sg	A

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1
☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Total quantity treated, disposed, or recycled On-site in 2015

SEC. 3

A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B)
☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2015
SITE 1	ARD981057870	H141	16,859.00

Comments:
SODIUM HYDROXIDE WASTE

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER
SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2015 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
WASTE PAINT AND SOLVENT (OKLAHOMA DISPOSAL PLAN 728097/STREAM NUMBER 15251)

B. EPA hazardous waste code	C. State hazardous waste code
D001 D035 F005	

D. Source code / Management method code for source code	E. Form code	F. Quantity generated in 2015	G. Waste minization code
G06 Management method code for source code G25	W203	16129.0 UOM Pounds Density ☐ 1 lbs/gal ☐ 2 sg	A

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1 ☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Total quantity treated, disposed, or recycled On-site in 2015

SEC. 3

A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2015
SITE 1	ARD981057870	H061	16,129.00

Comments:

METHYL ETHYL KETONE WASTE

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER
SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2015 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
WASTE PAINT AND SOLVENT (OKLAHOMA DISPOSAL PLAN 728097/STREAM NUMBER 15251)

B. EPA hazardous waste code	C. State hazardous waste code
D001 F005	

D. Source code	E. Form code	F. Quantity generated in 2015	G. Waste minization code
G06 Management method code for source code G25	W211	4991.0 UOM Pounds Density ☐ 1 lbs/gal ☐ 2 sg	A

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1 ☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Total quantity treated, disposed, or recycled On-site in 2015

SEC. 3

A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2015
SITE 1	ARD981057870	H061	4,991.00

Comments:

MINERAL SPIRITS, IPA, TOLUENE, SKYDROL, OIL

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER
SITE NAME: LIMCO AIREPAIR, INC.

EPA ID NO: **OKR000000612**

FORM GM

U.S. ENVIRONMENTAL PROTECTION AGENCY

2015 HAZARDOUS WASTE REPORT

WASTE GENERATION AND MANAGEMENT

Instructions: Please see the detailed instructions begining of the instructions and forms booklet before completing this form

SEC. 1

A. Waste description
WASTE PAINT AND SSOLVENT (OKLAHOMA DISPOSAL PLAN 728097/STREAM NUMBER 15251

B. EPA hazardous waste code	C. State hazardous waste code
D001	

D. Source code	E. Form code	F. Quantity generated in 2015	G. Waste minization code
G06 Management method code for source code G25	W307	860.0 UOM Pounds Density ☐ 1 lbs/gal ☐ 2 sg	A

SEC. 2

Was any of this waste managed on site?
☐ 1. Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1 ☒ 2. No (SKIP TO SEC.3)

	On-site management method code	Total quantity treated, disposed, or recycled On-site in 2015

SEC. 3

A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?
☒ 1 Yes (CONTINUE TO BOX B) ☐ 2 No (FORM IS COMPLETE)

	B. EPA ID No. of facility to which waste was shipped	C. Off-site management method code shipped to	D. Total quantity shipped in 2015
SITE 1	ARD069748192	H141	860.00

Comments:
ALUMINUM PASTE/PAINT

Limco Airepair

RECEIVED
APR 28 2016
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

April 25, 2016

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

228376 CD___ #c 1 c/o Tk

Disposal Plans

DEQ QUARTERLY REPORT FORM

CORRECTED

RECEIVED

APR 28 2016

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2016

For the quarter ending in (check one below):

X March June September December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Physical Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilllams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount in Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	4590	H141
15251	ARR000016733	ARD981057870	7344	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	5508	H141
15251	ARR000016733	ARD069748192	0	
		Total Amount this page:	17442	

RB 5-19-16

I hereby certify that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: [signature] **Date:** 4-25-16

Typed Name of Authorized Agent: Bill Williams **Title:** Director of Facilities, Maintenance and EHS

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Company Mailing Address	STREET: 5304 S LAWTON AVE		
	CITY: TULSA	STATE: OK	ZIP: 74107
Facility Physical Address	STREET: 5304 S LAWTON AVE		
	CITY: TULSA	STATE: OK	ZIP: 74107
Status:	Active		
NAICS:	332912		
SIC:	3728		
TRI:			

Issued Permit:	Date Issued;
99-026-O M-2	2004-05-24

Responsible Official

Name: BILL WILLIAMS
Phone: (918) 445-4300
Fax: (918) 446-8704
Email: billw@limcoairepair.com

Facility Contact

Name: BILL WILLIAMS
Phone: (918) 445-4300
Fax: (918) 446-8704
Email: billw@limcoairepair.com

Notes from DEQ to Facility

Notes from Facility to DEQ

Facility Location: Legal Description

County: TULSA
Sec Loc:
Section: 35
Town: 19N
Range: 12E

Geographic Coordinates

Latitude: 35.95011
Longitude: -95.88902

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
1	16499	Wipedown

Notes	Unit Type	Status	Latitude	Longitude
	Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 16564 — **Name: Wipedown Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
1	4

Process Data

Process ID: 59735 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0030	0.0470	**14.70**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: 6.71 **Tons**

Capture efficiency (%): 0

Primary Control Device: * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons**

Amount allowed: 9.50 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**
FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
2	16500	Vapor Degreaser		Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 16565 — **Name: Vapor Degreaser Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
12.5	5

Process Data

Process ID: 59736 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0.0010	0.02	**6.79**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.4260** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 3 **Tons/Year**

Pollutant: *Trichloroethylene* — **CAS Number:** 79016

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.4260** **Tons**

Capture efficiency (%): 100 — **Primary Control Device:** Vapor Recovery Unit — **Primary Efficiency (%):** 99 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 3.20 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name
3	16501	Paint Booth

Notes	Unit Type	Status	Latitude	Longitude
	Spray Booth or Coating Line	Operating	35.950050	-95.889020

Emission Release Point ID: 16566 — **Name: Paint Booth Exhaust** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
8	6

Process Data

Process ID: 59737 **SCC:** 40200101 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Surface Coating Operations, Surface Coating Application - General, Paint: Solvent-base

Process Material: Paint

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0	0.0030	**1.15**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.4110** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0.56 **Tons/Year**

Pollutant: *Ethylbenzene* — **CAS Number:** 100414

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.0170** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: *Methyl isobutyl ketone* **CAS Number:** 108101

Calculation Method	EmissionFactor		
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 0.1030 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: *Toluene* **CAS Number:** 108883

Calculation Method	EmissionFactor		
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 0.0680 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

Pollutant: *Xylenes (mixed isomers)* **CAS Number:** 1330207

Calculation Method	EmissionFactor		
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 0.1370 **Tons**

Capture efficiency (%)	Primary Control Device	Primary Efficiency (%)	Excess Emissions	Tons
0	* Uncontrolled	0	0	
	Secondary Control Device * Uncontrolled	**Secondary Efficiency (%)** 0	**Amount allowed** 0	**Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name	Notes	Unit Type	Status	Latitude	Longitude
4	17194	Dip Coating		Other evaporative sources	Operating	35.950110	-95.889020

Emission Release Point ID: 279 — **Name: Degreasing Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters					Fugitive Release Point Parameters	
Gas Exit Vel. (ft/s)	**Height (ft)**	**Diameter (ft)**	**Temp (F)**	**Flow Rate (acfm)**	**Fugitive area(sqft)**	**Fugitive Ht. (ft)**
0	0	0	0	0	3	5

Process Data

Process ID: 59738 **SCC:** 40100399 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Cold Solvent Cleaning/Stripping, Other Not Classified

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units	Maximum Hourly	Typical Daily	Actual Annual
Tons	0.0010	0.0090	**2.94**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **2.04** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 5.4670 **Tons/Year**

Pollutant: *Ethylbenzene* — **CAS Number:** 100414

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace ( ) (<0.001 tons)

Total Actual Emissions: **0.0020** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0

Excess Emissions: 0 **Tons** — **Amount allowed:** 0 **Tons/Year**

Pollutant: *Toluene* **CAS Number:** 108883

Calculation Method	EmissionFactor		
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 1.96 **Tons**

Capture efficiency (%)					
0	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions** 0 **Tons**
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 5.10 **Tons/Year**

Pollutant: *Xylenes (mixed isomers)* **CAS Number:** 1330207

Calculation Method	EmissionFactor		
Mass Balance	0	*N/A - Formula, Software, or CEMS	**Numerator Units**
Reference	Factor Includes Control Efficiency?	*N/A - Formula, Software, or CEMS	**Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions 0.09 **Tons**

Capture efficiency (%)					
0	**Primary Control Device**	* Uncontrolled	**Primary Efficiency (%)**	0	**Excess Emissions** 0 **Tons**
	Secondary Control Device	* Uncontrolled	**Secondary Efficiency (%)**	0	**Amount allowed** 0 **Tons/Year**

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT — **COMPANY ID: 1687**

FACILITY NAME: 5304 S LAWTON AVE — **FACILITY ID: 3620**

Sequence	Emission Unit ID	Emission Unit Name			
5	18608	Testing			
Notes	**Unit Type**		**Status**	**Latitude**	**Longitude**
	Other evaporative sources		Operating	35.950110	-95.889020

Emission Release Point ID: 18426 — **Name: Testing Fugitives** — **Type: Fugitive** — **Status: Operating**

Parameters

Gas Exit Vel. (ft/s)	Height (ft)	Diameter (ft)	Temp (F)	Flow Rate (acfm)
0	0	0	0	0

Fugitive Release Point Parameters

Fugitive area(sqft)	Fugitive Ht. (ft)
4	5

Process Data

Process ID: 59739 **SCC:** 40188898 — **Is Process Data Confidential?** N

Process Description: Petroleum and Solvent Evaporation, Organic Solvent Evaporation, Fugitive Emissions, Specify in Comments Field

Process Material: Solvent

Material I/O: Used (Input)

Process (Throughput) Rates

Units: Tons

Maximum Hourly	Typical Daily	Actual Annual
0	0.0050	**1.40**

Combustion Processes

Fuel Heat Input Design Capacity: 0 NOT APPLICABLE

Fuel Data (combustion processes only)

			Sulfur(Wt%)	Ash (Wt%)
Fuel Heat Content	0	N/A	0	0

Actual Hours/Year: 4992

Typical Operating Periods (when process is operational)

Hours/Day 16 **Days/Week** 6 **Weeks/Year** 52

Seasonal Operating Fractions

Spring 0.25 **Summer** 0.25 **Fall** 0.25 **Winter** 0.25

Emissions from this Process

Pollutant: * *Total VOC* — **CAS Number:**

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.67** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 2.50 **Tons/Year**

Pollutant: *Xylenes (mixed isomers)* — **CAS Number:** 1330207

Calculation Method: Mass Balance — **EmissionFactor:** 0 — *N/A - Formula, Software, or CEMS — **Numerator Units**

Reference: — Factor Includes Control Efficiency? — *N/A - Formula, Software, or CEMS — **Denominator Units**

Trace (<0.001 tons)

Total Actual Emissions: **0.0570** **Tons**

Capture efficiency (%): 0 — **Primary Control Device:** * Uncontrolled — **Primary Efficiency (%):** 0 — **Excess Emissions:** 0 **Tons**

Secondary Control Device: * Uncontrolled — **Secondary Efficiency (%):** 0 — **Amount allowed:** 0 **Tons/Year**

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT **COMPANY ID: 1687**
FACILITY NAME: 5304 S LAWTON AVE **FACILITY ID: 3620**

Carbon, Nitrogen, and Sulfur Pollutants

Pollutant	CAS	TOTAL AMOUNT

VOC Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS
* Total VOC		10.2570	
Ethylbenzene	100414	0.0190	Y
Methyl isobutyl ketone	108101	0.1030	Y
Toluene	108883	2.0280	Y
Trichloroethylene	79016	0.4260	Y
Xylenes (mixed isomers)	1330207	0.2840	Y

Particulate Pollutants

Pollutant	CAS	TOTAL AMOUNT	HAPS

2015 AIR EMISSIONS INVENTORY
TURN-AROUND DOCUMENT

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405)702-4100

COMPANY NAME: LIMCO AIREPAIR INC AND AERODUCT

"I certify:
(a) That I am the Responsible Official for LIMCO AIREPAIR INC AND AERODUCT as defined in OAC 252:100-1-3, and
(b) based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete."

Printed Name: _____

Signature: _____ **Date:** _____ **Title:** _____

DEQ Form #100-730	FINAL 2015 EMISSIONS INVENTORY	Final Submission Made: 3/30/2016 12:08 PM

DEQ QUARTERLY REPORT FORM

CORRECTED

RECEIVED

JUL 28 2016

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
... for a clean, attractive, prosperous Oklahoma

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

Land Protection Division
ATTN: Alicia Chen
P.O. Box 1677
Oklahoma City, OK 73101-1677
(405) 702-5100 Alicia.Chen@deq.ok.gov

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2016

For the quarter ending in (check one below):

March X June September December

Business/Plant Name: LIMCO AIREPAIR, INC

Business/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

Mailing Address: 5304 S. LAWTON AVE. TULSA, OK 74107

Contact Email: bwilliams@limcoairepair.com **Direct Contact Phone:** 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount In Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	0	
15251	ARR000016733	ARD981057870	16983	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	6885	H141
15251	ARR000016733	ARD069748192	918	H141

Total Amount this page: 24786

I hereby certity that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

Signature of Authorized Agent: Bill Williams

Date:

Typed Name of Authorized Agent: Bill Williams

Title: Director of Facilities, Maintenance and EHS

Limco Airepair

RECEIVED
JUL 28 2016
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

July 22, 2016

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

229444 CD___ #c 1 c/o TK

RCRA Disposal Plans

Limco Airepair

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AUG 29 2016
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

July 22, 2016

Oklahoma Department of Environmental Quality
Waste Management Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Dear Ms. Chen:

Enclosed is the Generator's Quarterly Report. If you have any questions regarding this report, please call me at (918) 445-4300.

Sincerely,

Bill Williams
Director of Facilities, Maintenance and EH&S

229784 CD__ #c 1 c/o SM

Disposal Plans

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AUG 29 2016

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEQ QUARTERLY REPORT FORM

CORRECTED

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
...for a clean, attractive, prosperous Oklahoma

I Protection Division
N: Alicia Chen
Box 1677
homa City, OK 73101-1677
702-5100 Alicia.Chen@deq.ok.gov

To be completed by Oklahoma generators of hazardous waste as required by 27A O.S. Supp. 1994, §2-7-103 and §2-7-105, and the rules and regulations promulgated thereto. This report is to be received by the Oklahoma Department of Environmental Quality, Land Protection Division, no later than sixty (60) days after the end of the quarter.

See the attached pages for instruction on how to complete this form.

RECEIVED
AUG 29 2016
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

EPA ID No.: OKR000000612

Disposal Plan No.: 728097

Reporting Calendar Year: 2016

For the quarter ending in (check one below):
March X June September December

ness/Plant Name: LIMCO AIREPAIR, INC

ness/Plant Phyiscal Location: 5304 S. LAWTON AVE. TULSA, OK 74107

ng Address: 5304 S. LAWTON AVE. TULSA, OK 74107

act Email: bwilliams@limcoairepair.com Direct Contact Phone: 918 445-4300

1	2	3	4	5
Disposal Plan Waste Stream No.	Transporter EPA ID No.	Treatment, Storage, Disposal, Recycling Facility EPA ID No.	Amount In Pounds	Handling Codes and Comments
15189	ARR000016733	ARD981057870	0	
15251	ARR000016733	ARD981057870	16983	H061
18474	ARR000016733	ARD981057870	0	
24432	ARR000016733	ARD069748192	0	
24432	ARR000016733	ARD981057870	0	
1401001	ARR000016733	ARD981057870	6885	H141
15251	ARR000016733	ARD069748192	918	H141
		Total Amount this page:	24786	

eby certity that the above record is accurate and correct to the best of my knowledge and includes all hazardous waste generated by the facility.

ature of Authorized Agent: Bill Williams Date:

d Name of Authorized Agent: Bill Williams Title: Director of Facilities, Maintenance and EHS

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

July 27, 2009

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Bill Williams
EH&S Manager
5304 S. Lawton Ave
Tulsa, Oklahoma 74107

Re: **Limco Airepair Inc., and Aeroduct, 5304 S Lawton Ave. Facility**
Closure of Enforcement Case #4685

Dear Mr. Williams,

On November 18, 2008, The Oklahoma Department of Environmental Quality (Department) conducted an on-site evaluation at Limco Airepair Inc. (Facility) in Tulsa, Oklahoma. It was discovered during a record review and physical tour that the Facility was not keeping proper records and conducting monitoring as required in Operating Permit #99-026-O (M-2) and the National Emissions Standards for Hazardous Air Pollutants for Source Categories (NESHAP), 40 CFR 63, Subpart T, Standards for Halogenated Solvent Cleaning.

A compliance plant submitted to the Department was received on January 23, 2009 and approved by the Department. The Department received the Annual Report & Annual Solvent Emissions Report and the Semiannual Exceedance Report on February 24, 2009. No violations or deviations were noted.

On July 22, 2009, a partial compliance evaluation (PCE) focusing on the vapor degreaser was conducted at the Facility to review records and monitoring. The Department found all records and monitoring are being conducted daily on the first shift. The Operator records the required data on a log sheet.

After review of the records and a physical evaluation of the vapor degreaser, the Facility appears to be in compliance with Permit #99-026-O (M-2) and NESHAP Subpart T. If at any time in the future, the Facility adds equipment and/or processes that may increase the emission, the Department may require a review of the Facility. The Department appreciates your cooperation in resolving this matter, and considers Enforcement Case #4685 closed.

If you have any questions, contact Helen King of the Department at (918) 293-1612.

Sincerely,

Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement Group -- ROAT

7008 2810 0001 7639 5904

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PS Form 3800, August 2006 See Reverse for Instructions

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PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

April 9, 2008

Mr. Andrei Dessiatov
Sales Manager
Lobo Holdings Company
P.O. Box 1228
Owasso, OK 74055-1228

Subject: December 18, 2007 – Full Compliance Evaluation
February 7, 2008 – Alternative Enforcement Letter

Dear Mr. Dessiatov:

This letter is to inform you that the Department of Environmental Quality ("DEQ") considers the enforcement case involving the maintenance of hours of operation, fuel usage, pressure drop, maintenance logs, complaint logs and wet suppression records to be closed as of today. On March 5, 2008, Lobo submitted the daily production tracking records for February 2008, demonstrating that the facility has started to maintain the required records. Accordingly, Lobo has addressed all of the issues of concern in the Alternative Enforcement Letter. If you have any questions; please feel free to contact David Youngman at (918) 293-1618.

Sincerely,

Rhonda Jeffries
Environmental Programs Manager
Air Quality Division
Department of Environmental Quality

CC: David Youngman, Environmental Programs Specialist

MEMORANDUM

DATE: April 9, 2008

TO: Rhonda Jeffries, Environmental Programs Manager
Regional Office at Tulsa

Cc: Becky Whitecotton, Environmental Programs Specialist

FROM: David Youngman, Environmental Programs Specialist
Regional Office at Tulsa

SUBJECT: Lobo Holdings Company – Closure Memorandum
Enforcement Case 4279

On December 18, 2007, an unannounced full compliance evaluation was conducted at Lobo Asphalt, located at 13737 E. 46th Street North, Tulsa, OK 74117. As a result of the evaluation an Alternative Enforcement Letter, dated February 7, 2008, was sent to the facility.

Issue #1
The Department alleged that Lobo Holdings failed to maintain records of the hours of operation, fuel usage, pressure drop records, maintenance logs, complaint logs, or wet suppression logs.

On March 5, 2008, Lobo Asphalt provided copies of the February 2008 Daily Production Tracking documents that contain the required records. No other compliance measures are required for the purposes of this enforcement case and it is recommended for closure. There are no emission reductions for this enforcement case.

Penalty Summary

Proposed Penalty: N/A
Total Assessed Penalty (Cash + SEP): N/A
Cash Penalty Assessed: N/A
SEP Amount: N/A
Date CO Executed: N/A
CO #: N/A
Penalty Collected: N/A
Date Penalty Collected: N/A

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-7-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	105.13
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	.5
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1-2

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.12-2

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	
Storange Tank Maintenance	
Plant Equipment Modifications	Flights removed on 2-6

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

RECEIVED
MAR 5 2008
By

Date: 2-8-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	1373.65
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	9
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1 - 3.2

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.1 - .3

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	
Storange Tank Maintenance	
Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-9-08	Initials: ET

	Asphalt Production
Total Tons Asphalt Produced	1,079.5
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	9
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.5 - 2.8

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.15 - .2

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-18-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	808.09
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	5
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.2 - 2.8

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.15 - .21

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-14-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	1,486.68
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	9
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.2-3

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.16-.3

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-19-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	978.44
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	8
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.5-3

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.16-.28

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	Flights Removed on 2-17

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-25-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	766.11
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	4 hrs
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.4 - 3

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.13 - .26

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-26-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	274.52
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	2 h.s
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	6000 Gal
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.2 - 2.2

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.15-.22

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	
Storange Tank Maintenance	Visually Inspected for leaks
Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-27-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	505.36
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	3.5 hrs
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.3 - 2.9

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.14 - .28

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-28-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	1,970.65
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	9 hrs
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1 - 3.2

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.1 - .3

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 2-29-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	2,876.88
Total Tons End Month *	14,648.13
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	28279.91

*To be completed at end of each calendar month.

Hours of Operation	10
Total Hours End Month *	86
Total Hours Previous 11 Months*	967
12-Month Rolling Total Hours*	1,053

*To be completed at end of each calendar month.

Burner Fuel Tons Received	~~1,200 Gal~~
Total Tons End Month *	~~1,200 Gal~~ 12,000 Gal
Total Tons Previous 11 Months*	210,000 Gal
12-Month Rolling Total Tons*	222,000

*To be completed at end of each calendar month.

Preasure drop across baghouse	1-3.25

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.1 -2.8

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	
Storange Tank Maintenance	
Plant Equipment Modifications	

Comments:

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-C
LOBO ASPHALT PLANT

Date: 3-1-08	Initials: EJ

	Asphalt Production
Total Tons Asphalt Produced	1,463.61
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	7
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	1.1 - 2.9

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	.15 -3

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	
Storange Tank Maintenance	
Plant Equipment Modifications	
Comments:	

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1. Article Addressed to:

Mr. Andrei Dessiatov
Lobo Holdings Company
P.O. Box 1228
Owasso, OK 74055-1228

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X [signature] ☐ Agent ☐ Addressee

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- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
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STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

March 4, 2008

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Andrei Dessiatov
Sales Manager
Lobo Holdings Company
P.O. Box 1228
Owasso, OK 74055-1228

RE: **Lobo Asphalt Plant,**
March 3, 2008 - Enforcement Conference

Dear Mr. Dessiatov:

This letter is to confirm matters discussed during the enforcement conference held at the Department of Environmental Quality (DEQ), Regional Office at Tulsa on March 3, 2008. The purpose of the conference was to discuss the violations set forth in the Alternative Enforcement Letter dated February 7, 2008. The key issues discussed were the record keeping violations and the compliance plant Lobo submitted on February 12, 2008. Mr. Dessiatov explained how the facility has already corrected the record keeping deficiencies and agreed to provide the DEQ with copies of the daily compliance log for the last two weeks of February 2008. Finally, the DEQ representatives explained the process of resolving the enforcement case.

Within 30 days of receipt of this letter, as agreed in the meeting, please provide the following information:

1. A copy of the daily compliance log from February 17, 2008, through February 29, 2008.

Please forward the requested information to:

Attention: David Youngman
Oklahoma Department of Environmental Quality
Regional Office at Tulsa
3105 East Skelly Drive, Suite 200
Tulsa, Oklahoma 74105

The DEQ appreciates your cooperation in this matter. If you have any questions, please phone either David Youngman at (918) 293-1618 or Robert Singletary at (405) 702-7173.

Sincerely,

Rhonda Jeffries
Environmental Program Manager
Regional Office at Tulsa

cc: Robert Singletary, Staff Attorney, Air Quality Division

Lobo Asphalt
Formerly A&A Materials Company
Lobo Asphalt is a Division of Lobo Holdings, Inc.

P.O. BOX 1228
OWASSO, OK 74055-1228
PHONE: (918) 234-7004
FAX: (918) 234-7047

February 12, 2008

RECEIVED
FEB 14 2008
By

David Youngman
Environmental Programs Specialist
Oklahoma Department of Environmental Quality
3105 East Skelly Drive
Suite 200
Tulsa, OK 74105

Re: Air Quality Full Compliance Evaluation at Lobo Asphalt Plant, Tulsa County

Dear Mr. Youngman:

Thank you for taking time to conduct full air quality compliance evaluation of our new facility. Lobo Holdings, Inc. would like to accept your offer of an alternative option to resolve the noncompliance issues. The purpose of this letter is to provide compliance plan and proposal for resolution of the violations.

Immediately after compliance evaluation we modified our daily production tracking form (attached) to include: hours of operation, fuel usage, pressure drop records and maintenance activities. Also, we established a complaint log. Eric Jones our Plant Manager is taking responsibility-overseeing administration of daily production tracking form. Further, we have gathered available information from various sources in efforts to re-establish deficient records.

Lobo Holdings, Inc always endeavors to comply with all applicable regulations and it unfortunate that compliance issues have been identified. However, we took action quickly to satisfy requirements of the General Permit.

Please let us know if you need additional information.

Sincerely,

Andrei Dessiatov
Sales Manager

Max Wolf
President

DAILY PRODUCTION TRACKING
AIR QUALITY GENERAL PERMIT NO. 2006-273-0
LOBO ASPHALT PLANT

Date:	Initials:

	Asphalt Production
Total Tons Asphalt Produced	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Hours of Operation	
Total Hours End Month *	
Total Hours Previous 11 Months*	
12-Month Rolling Total Hours*	

*To be completed at end of each calendar month.

Burner Fuel Tons Received	
Total Tons End Month *	
Total Tons Previous 11 Months*	
12-Month Rolling Total Tons*	

*To be completed at end of each calendar month.

Preasure drop across baghouse	

Baghouse Operating Range: 1 - 3.25

Burner Maintenance/ Adjustments	

Operating Range : 0.1 - 0.375

Wet supression sys. maintenance	

Storange Tank Maintenance	

Plant Equipment Modifications	

Comments:

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, [redacted]nd 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Andrei Dessiatov
Lobo Holdings Company
P.O. Box 1228
Owasso, OK 74055-1228

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [redacted] ☐ Agent ☐ Addressee

B. Received by (*Printed Name*) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

OWASSO OK FEB 11 2008

3. Service Type
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☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7006 2760 0002 5859 5251

D.Y.

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly, Suite 200
Tulsa, OK 74105

7006 2760 0002 5859 5251

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PS Form 3800, August 2006 — See Reverse for Instructions

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IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

February 7, 2008

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Andrei Dessiatov
Sales Manager
Lobo Holdings Company
P.O. Box 1228
Owasso, OK 74055-1228

Re: Air Quality Full Compliance Evaluation at Lobo Asphalt Plant, Tulsa County

Dear Mr. Dessiatov:

The Oklahoma Department of Environmental Quality, Air Quality Division (Department) conducted a full compliance evaluation at the above referenced facility on December 18, 2007. A copy of the final report is attached for your review. Please note that compliance issues have been identified in the summary section of the report.

The purpose of this letter is to offer Lobo an alternative option to resolve the non-compliance issue(s) other than traditional enforcement including the issuance of a Notice of Violation. If Lobo elects to pursue this option, contact David Youngman at (918) 293-1618 within ten (10) calendar days of receipt of this letter. Within twenty (20) calendar days after contacting the inspector, provide a written compliance plan and schedule, and a proposal for resolution of the violations. If it is necessary to conduct a meeting to discuss the issues, the Department will contact you after review of the compliance plan. If there are factual errors (i.e. transposed numbers, misreading of a record, etc), the facility may provide proof of the error in the compliance plan; however, this process will not include a dispute of the issue(s) of noncompliance. If Lobo wishes to dispute the findings alleged in the report, the issue(s) will be addressed through the traditional enforcement process following the issuance of a Notice of Violation.

If you have any questions, please contact David Youngman of the Department at (918) 293-1618.

Mr. Dessiatov
Lobo Holdings Company
February 7, 2008

Sincerely,

Rhonda Jeffries, Environmental Programs Manager
ROAT
Air Quality Division

Enclosures: Evaluation Report, Dated January 15, 2008

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM

January 15, 2008

TO: Files

THROUGH: Legal

THROUGH: Kendal Stegmann, Senior Environmental Programs Manager

THROUGH: Rhonda Jeffries, Environmental Programs Manager
Regional Office at Tulsa (ROAT)

THROUGH: Peer Review

FROM: David Youngman, Environmental Programs Specialist
ROAT

cc: Andrei Dessiatov
Sales Manager
Lobo Holdings, Inc.
P.O. Box 1228
Owasso, OK 74055-128

SUBJECT: Full Compliance Evaluation (FCE) at **Lobo Holdings, Inc.**
Lobo Asphalt Plant
13737 E. 46th Street North
Tulsa, Oklahoma 74117
AIRS ID Number 143-00085
FCE ID Number 3622

Introduction

On December 18, 2007, from 15:00 until 16:40, an unannounced full air quality compliance evaluation was conducted at the above-referenced facility. David Youngman, an Environmental Programs Specialist with the Oklahoma Department of Environmental Quality (Department), Air Quality Division, conducted the evaluation. Credentials were properly presented upon arrival. Andrei Dessiatov, Sales Manager, Eric Jones, Plant Manager, and Jim Dykes, Operator, represented the facility throughout the evaluation. The facility was inspected to document the compliance status of the facility with federal and state air quality regulations as well as Permit No. 2006-273-O.

History and Process Description

Lobo Holdings Inc., owns and operates an asphalt plant in Tulsa County (SIC 2951). The facility originally operated a Boeing Model MS600 and associated equipment under Permit No. 96-002-O. In January of 2007 the facility received a construction permit for an Astec drum mix asphalt plant. The Astec plant has replaced the Boeing plant and is solely used for production. The Boeing plant is still located at the facility, but has been dismantled and is for sale.

Emissions/Source Classification

The facility is a Synthetic Minor Source for PM_{10}. Emissions inventories for 2004, 2005, and 2006 were reviewed during this evaluation. The reported emissions and percent changes are as follows:

	2004	% Change	2005	% Change	2006
Carbon Monoxide	13.3	*25.26*	16.66	*-25.57*	12.4
Nitrogen Oxides	5.52	*25.18*	6.91	*-22.72*	5.34
PM-Coarse	1.77	*7.91*	1.91	*-9.95*	1.72
PM-Fine	0.25	*24.00*	0.31	*-22.58*	0.24
Sulfur Oxides	1.1	*25.45*	1.38	*-22.46*	1.07
VOC	2.14	*32.71*	2.84	*-27.11*	2.07
Benzene	0.04	*25.00*	0.05	*-20.00*	0.04
Ethylbenzene	0.22	*27.27*	0.28	*-25.00*	0.21
Formaldehyde	0.44	*20.45*	0.53	*1.89*	0.54
Toluene	0.1	*30.00*	0.13	*-23.08*	0.1
Xylenes	0.27	*25.92*	0.34	*-23.53*	0.26

The facility had an increase in production during 2005, causing the emissions to increase for that year, followed by a decrease in production which returned the emissions to a level similar to 2004.

State and Federal Regulatory Applicability

OAC 252:100-5 (Registration, Emissions Inventory, and Annual Operating Fees)
Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants.

The facility has submitted the emission inventory for the past three years.

OAC 252:100-7 (Permits for Minor Sources)
Subchapter 7 sets forth the permit application fees and the basic substantive requirements of permits for minor facilities.

The facility is a Synthetic Minor Source operating under Permit No. 2006-273-C.

OAC 252:100-25 (Visible Emissions and Particulates)
This subchapter states that no discharge of greater than 20% opacity is allowed except for short-term occurrences, which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period excess 60% opacity.

No visible emissions were observed.

OAC 252:100-29 (Fugitive Dust)
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards.

No fugitive dust was observed discharging beyond the property line at this facility.

OAC 252:100-43 (Testing, Monitoring, and Recordkeeping)
This subchapter provides general requirements for testing, monitoring, and recordkeeping and applies to any testing, monitoring or recordkeeping activity conducted at any stationary source.

The facility provided copies of the daily and monthly production and the sulfur content of the fuel oil (Attachments A & B). However, the facility was unable to provide records of the hours of operation or fuel usage, pressure drop records, maintenance logs, complaint logs or wet suppression logs.

NSPS, 40 CFR Part 60
Subpart I (Asphalt Concrete Plants) affects hotmix asphalt plants which commence construction or modification after June 11, 1973. The following facilities in a hotmix asphalt plant are affected: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emissions control systems. Subpart I prohibits discharge into the atmosphere of gases which contain 0.04 gr/dscf of particulate matter and gases which exhibit 20% opacity or greater. NSPS specifies performance testing on affected facilities. The following reference methods are specified in Subpart I: Method 9 and Method 5. Section 60.11 specifies opacity testing shall be done by Method 9 for a minimum of 30 six-minute averages.

During the onsite evaluation no opacity was observed. The facility conducted a performance test on August 23, 2007, which measured total PM_{10} emissions of 0.0038 gr/dscf and opacity of 0% for the average of three runs.

Evaluation/Enforcement History
A Full compliance evaluation was conducted at the facility on May 5, 2003. As a result of the evaluation an enforcement case was opened to address permit violations of Specific Conditions 1 and 6 of Permit No. 96-002-O, and an opacity violation of NSPS Subpart I. Two additional

enforcement cases have been opened as a result of complaint based evaluations that found the facility again in violation of the opacity requirements of NSPS Subpart I. All three of these enforcement cases were addressed and resolved through the issuance of Consent Orders. Enforcement Case 971 was closed on February 20, 2004, Case 1387 was closed on September 2, 2004, and Case 2209 was closed on July 21, 2006.

Annual Compliance Certifications/Semiannual Reports
The facility is a Synthetic Minor Source and is not required to submit an ACC or SAR.

Excess Emissions
The facility has reported two excess emission events, one of the excess emissions was reported for August 10, 2005, and one for September 7, 2004. A 10-day report and demonstration of cause was submitted for the excess emission event from August 10, 2005, however, the 10-day report was one day late. The excess emissions from August 10, 2005, were addressed through enforcement case 2209. For the September 7, 2004, excess emission, the Department received a written report and a demonstration of cause on September 22, 2004, one day late for the written report. The facility claimed that there was a malfunction of the damper on the asphalt mix. The excess emission lasted for 30 minutes and upon completion of the asphalt run the plant stopped operations until repairs were made. This is the only excess emission associated with the damper reported by the facility, it did not occur as a result of operator error or improper operation of the facility, and it therefore appears to meet the requirements for malfunction.

Evaluation
A physical evaluation was made at the facility to further document the compliance status of the facility with federal and state air quality regulations along with Permit No. 2006-273-O. Upon arrival at the facility the inspector presented proper credentials and was introduced to Andrei Dessiatov the Sales Manager. The inspector explained the purpose of the evaluation and discussed the records required by the permit. Mr. Dessiatov was able to provide sulfur content of the fuel oil and the daily and monthly asphalt production. Mr. Dessiatov then escorted the inspector on a tour of the facility. The old Boeing Model MS 600 hot mix asphalt plant that is covered under Permit No. 96-002-O is now disassembled and for sale. The old plant was decommissioned in February of 2007 and only two feeder bins from the old plant are being used with the new plant. The facility grounds had stock piles of aggregate materials, no opacity was observed coming from the stockpiles and no fugitive dust was observed being discharged beyond the property line. The Astec drum mix asphalt plant was observed next. The equipment was verified and the evaluation party entered the control room. Mr. Eric Jones, Plant Manager, and Mr. Jim Dykes, Operator, were introduced to the inspector. The plant was not operating at that time so the baghouse pressure and opacity from the baghouse were not observed. Mr. Dessiatov then escorted the inspector back to the main office and the evaluation concluded at 16:40.

Permit No. 2006-273-O, Specific Conditions
Except as otherwise prohibited or limited by the Permit or this Authorization, the permittee is hereby authorized to operate the following emission sources and/or conduct the following activities at the referenced site, described in the application received on November 3, 2006. The Evaluation Memorandum, dated January 30, 2007, explains the derivation of applicable permit

requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein:

I. Emission Units and Numerical Limitations

Emission limitations are hereby established for all regulated pollutants as a facility-wide cap. Emissions from all emission units at the facility shall not equal or exceed major source thresholds, i.e., 100 TPY of any regulated pollutant, 10 TPY of any single HAP, or 25 TPY of a combination of HAP.

Compliance with these emission limitations shall be determined on a monthly rolling basis. The estimate shall be annualized using a monthly average during the first 11 months following issuance of this Authorization. However, any facility with actual emissions of each regulated air pollutant less than 80% of the major source thresholds may make this determination annually. The facility throughput shall be maintained at such a level so as to not exceed the annual facility-wide emission limitations.

Emissions inventories for 2004, 2005, and 2006 were reviewed during this evaluation. The reported emissions and percent changes are as follows:

	2004	% Change	2005	% Change	2006
Carbon Monoxide	13.3	*25.26*	16.66	*-25.57*	12.4
Nitrogen Oxides	5.52	*25.18*	6.91	*-22.72*	5.34
PM-Coarse	1.77	*7.91*	1.91	*-9.95*	1.72
PM-Fine	0.25	*24.00*	0.31	*-22.58*	0.24
Sulfur Oxides	1.1	*25.45*	1.38	*-22.46*	1.07
VOC	2.14	*32.71*	2.84	*-27.11*	2.07
Benzene	0.04	*25.00*	0.05	*-20.00*	0.04
Ethylbenzene	0.22	*27.27*	0.28	*-25.00*	0.21
Formaldehyde	0.44	*20.45*	0.53	*1.89*	0.54
Toluene	0.1	*30.00*	0.13	*-23.08*	0.1
Xylenes	0.27	*25.92*	0.34	*-23.53*	0.26

The facility had an increase in production during 2005, causing the emissions to increase for that year, followed by a decrease in production which returned the emissions to a level similar to 2004. All of the reported emissions appear to be under the Major Source threshold required by the permit, indicating compliance with this condition.

II. Monitoring and Recordkeeping Requirements

The permittee shall demonstrate continued compliance with any emission limitations or any operational conditions as specified in the permit (summarized in TABLE 14 of the Evaluation Memorandum).

The facility provided copies of the daily and monthly production and the sulfur content of the fuel oil (Attachments A & B). However, the facility was unable to provide records of the hours of operation or fuel usage, pressure drop records, maintenance logs, complaint logs or wet suppression logs.

III. Equipment Additions/Authorization Modifications

Construction of additional emission units (as provided by the Hot Mix Asphalt Facility General Permit), or operational changes (e.g., changes in tank contents to another organic liquid or increases in throughput), may be allowed over the life of this Authorization without obtaining another Authorization to Operate so long as facility-wide emissions do not exceed that amount which would cause the facility to be classified as a major source.

Written notification of intent to construct, or to make operational changes (e.g., changes in tank contents or increases in throughput), must be provided to DEQ within 7 days of the start of operation. Neither an Authorization to Construct nor a new Authorization to Operate is required for these changes.

Operation of additional emission units authorized under an individual construction permit (e.g., those requiring a site-specific determination) requires issuance of a new Authorization to Operate for the facility (see Part 4, section II.C of the permit). The permittee shall make application for a new Authorization to Operate within 60 days of commencing operation of such additional emission units.

The facility has not modified, added or changed any equipment since the issuance of this permit, indicating compliance with this condition.

IV. Previous Permits

The facility has been operating under Permit No. 96-002-O.

Permit No. 96-002-O is for the old Boeing Model MS600 plant that has been disassembled and is currently for sale. The facility has no plans to ever use this plant in the future.

V. Equipment List

The inventory listed in Table A shows those emission units currently located at the facility.

Table A - Emission Units of the existing Boeing plant

EU ID#	**Description**	**Capacity/ Throughput**	Mfg. Date	NSPS

				Subpart
D-1	Boeing MS600 Drum Mix Asphalt Plant	600 TPH and 124 MMBTUH	1976	I
H-1	Electric A/C tank heating	N/A	1996	NA
T-1	Asphalt cement tank	17,000 gallons	1996	NA
T-2	Asphalt cement tank	17,000 gallons	1996	NA
T-3	Diesel	8,809 gallons	1996	NA
T-4	Diesel	8,809 gallons	1996	NA
T-5	Diesel	8,809 gallons	1996	NA
T-6	Diesel	9,982 gallons	1996	NA
UNLOAD	Unloading to 6 Feeder Bins	400 TPH	--	NA
CONV-1	Conveyor	400 TPH	--	NA
CONV-2	Conveyor	400 TPH	--	NA
DRUM-1	From Conveyor to Drum Mixer	400 TPH	--	NA
SP-1	Stockpile	400 TPH	--	NA

The Boeing Model MS600 and its associated equipment has been disassembled, with two of the feeder bins being used with the operation of the new plant. This plant is currently for sale and the facility has no plans to use this plant in the future.

The inventory listed in Table B shows proposed new equipment at the facility.

Table B - Emission Units of the new Astec plant

EU ID#	**Description**	**Capacity/ Throughput**	Mfg. Date	NSPS Subpart
D-2	Astec Drum Mix Asphalt Plant	300 TPH and N/A MMBTUH	2007	I
H-2	Electric A/C tank heating	N/A	2007	NA
T-7	Asphalt cement tank	N/A	2007	NA
T-8	Asphalt cement tank	N/A	2007	NA
T-9	Diesel	N/A	2007	NA
T-10	Diesel	N/A	2007	NA
H-3	Hot oil heater	N/A	2007	NA
UNLOAD	Unloading to 6 Feeder Bins	300 TPH	2007	NA
UNLOAD	Unloading to 2 Feeder Bins		1996*	NA
CONV-3	Conveyor (feed to scalper 1)	300 TPH	2007	NA
CONV-4	Conveyor (feed to scalper 2)		2007	NA
CONV-5	Conveyor (scalper 1 to drum)	300 TPH	2007	NA
CONV-6	Conveyor (scalper 2 to drum)		2007	NA
CONV-7	Drag Conveyor	300 TPH	2007	NA
SCR-1	Scalping screen 1	300 TPH	2007	NA
SCR-2	Scalping screen 2		2007	NA

EU ID#	**Description**	**Capacity/ Throughput**	Mfg. Date	NSPS Subpart
SP	Virgin and recycle stockpiles	300 TPH	--	NA
L-1	Loadout	300 TPH	2007	NA

- Two feeder bins from the existing plant will be used with the new plant.

Onsite inspection indicates that the facility has not changed out any equipment from the above list, indicating compliance with this condition.

Exit Interview/Summary

Based on the information gathered as a result of the onsite evaluation, the following deviations were noted:

1. The facility submitted late Excess Emission 10-day reports, indicating a violation of OAC 252:100-9-3.1(b).
2. The facility was unable to provide records of the hours of operation or fuel usage, pressure drop records, maintenance logs, complaint logs or wet suppression logs, indicating a violation of General Permit No. 2006-273-O, Part 2, Section II(D), Section III(A), Section IV(C), Section VII(G), and Appendix A (D and E).

Attachments

A- Daily Production Records
B- Monthly Production Records
C- Sulfur Content of the Fuel Oil

Air Quality Division – Enforcement Section
Enforcement Case Timeline

TEAM Enforcement ID 4279 **Date Assigned** 12/18/07

Company Lobo Holdings, Inc. **Inspector** David Youngman

Facility 13737 E. 46th St. N. **SIC Code** 2951
Tulsa, OK 74117
TEAM Facility ID 1458
County Tulsa

Type of Discovery	(Y/N)	Date
Inspection	Y	12/18/07
Complaint		
Permit Application		
File Review		
Required Report		
Self-Disclosure		
Referral from EI		
Referral from Permits		
Referral from TRSP		
Referral from EPA		
Other		

More information needed? No
Date additional info received

If yes, Day Zero equals Discovery date plus 90 days
OR date info is received, whichever is earlier

Day Zero

If no, Day Zero equals Discovery date plus 45 days (30 days for disclosure)

Day Zero 2/1/08

NOV Target
NOV Issued

Potential violations		Description
High Priority Violations	(Y/N)	
General Criteria 1		
General Criteria 2		
General Criteria 3		
General Criteria 4		
General Criteria 5		
General Criteria 6		
General Criteria 7		
General Criteria 8		
General Criteria 9		
General Criteria 10		
Matrix Criteria 1		
Matrix Criteria 2		
Matrix Criteria 3		
Matrix Criteria 4		
Matrix Criteria 5		
Non HPV Violations		
NSPS (40 CFR Part 60)		
NESHAPs (40 CFR Part 61)		
MACT (40 CFR Part 63)		
OAC 252:100		
Permit conditions	N	Construction General Permit Violations

July 27, 2009

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Bill Williams
EH&S Manager
5304 S. Lawton Ave
Tulsa, Oklahoma 74107

Re: **Limco Airepair Inc., and Aeroduct, 5304 S Lawton Ave. Facility Closure of Enforcement Case #4685**

Dear Mr. Williams,

On November 18, 2008, The Oklahoma Department of Environmental Quality (Department) conducted an on-site evaluation at Limco Airepair Inc. (Facility) in Tulsa, Oklahoma. It was discovered during a record review and physical tour that the Facility was not keeping proper records and conducting monitoring as required in Operating Permit #99-026-O (M-2) and the National Emissions Standards for Hazardous Air Pollutants for Source Categories (NESHAP), 40 CFR 63, Subpart T, Standards for Halogenated Solvent Cleaning.

A compliance plant submitted to the Department was received on January 23, 2009 and approved by the Department. The Department received the Annual Report & Annual Solvent Emissions Report and the Semiannual Exceedance Report on February 24, 2009. No violations or deviations were noted.

On July 22, 2009, a partial compliance evaluation (PCE) focusing on the vapor degreaser was conducted at the Facility to review records and monitoring. The Department found all records and monitoring are being conducted daily on the first shift. The Operator records the required data on a log sheet.

After review of the records and a physical evaluation of the vapor degreaser, the Facility appears to be in compliance with Permit #99-026-O (M-2) and NESHAP Subpart T. If at any time in the future, the Facility adds equipment and/or processes that may increase the emission, the Department may require a review of the Facility. The Department appreciates your cooperation in resolving this matter, and considers Enforcement Case #4685 closed.

If you have any questions, contact Helen King of the Department at (918) 293-1612.

Sincerely,

_____

Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement Group -- ROAT

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bill Williams, EHS Mgr.
5304 S. Lawton Ave
Tulsa, Ok 74107

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Karen S. Trevino ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Karen S. Trevino

C. Date of Delivery 7-29-09

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. 7008 2810 0001 7639 5904

H.K

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

UNITED STATES POSTAL SERVICE

TULSA OK 741

30 JUL 2009 PM 5 T

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USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly, Suite 200
Tulsa, OK 74105

370

TALLY VAPOR DEGREASER DWELL TIMES

PARTS BASKET #	PARTS IN BASKET	VAPOR ZONE DWELL TIME	FREE-BOARD ZONE DWELL TIME
1 LR	LG FINS	8%10 12 min	35%=4.20 min
2 LR	LG FINS & BARS		
3 MR	FINS & BARS	15@ min	35% 320
4 MR	FINS & BARS	3 min	35% = 1.05 min
5 MR	FINS & BARS	3 min	35% = 1.05 min.
6 SR	FINS	10 min	35% 300 min
7 SR	FINS	15 min	35% 320 min
8 ESR	FINS	20	35% 700 min
9 ESR	FINS	20	35 700 min
10 M TRAY	BARS		
11 M TRAY	BARS		
12 M RACK TRAY	PARTY SHEETS		
13 L TRAY	BARS		
14 L RACK	PARTY SHEETS	2 min	35% 30 Secs
15 ML RACK	PARTY SHEETS	1120 2 min	35% 030 Sec
16 M RACK	PARTY SHEETS	2 min	35% 30 Sec
17 S RACK	PARTY SHEETS	2 min	35% 30 Sec
18			
19			
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20			

LID / COVER INSPECTION,

Working properly, Completely covers machine, Free of Cracks, No Holes or other Defects. Daily for 30 days, Monthly for One Year, Quarterly after that.

DATE	ACCEPTED	REJECTED
4 5 09	✓	
4 8 09	✓	
4 15 09	✓	
4 23 09	✓	
4 30 09	✓	
5 2 09	✓	
5 10 09	✓	
5 21 09	✓	
5 26 09	✓	
5 29 09	✓	
6 1 09	✓	
6 2 09	✓	
6 5 09	✓	
6 8 09	✓	
6 10 09	✓	

HOIST SPEED (FPM) LOG,

Daily for 30 days, Monthly for One Year, Ouarterly after that.

DATE	FEET PER MINUTE
	7.5
	7 5
	7.5
	7.5
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	7.5
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	7.5
	7.5

LID / COVER INSPECTION, Working properly, Completely covers machine, Free of Cracks, No Holes or other Defects. Daily for 30 days, Monthly for One Year, Quarterly after that.			HOIST SPEED (FPM) LOG, Daily for 30 days, Monthly for One Year, Quarterly after that.	
DATE	ACCEPTED	REJECTED	DATE	FEET PER MINUTE
1 5 09	✓			7.4
1 6 09	✓			7.5
1 7 09	✓			7.5
1 8 09	✓			7.5
1 9 09	✓			7.5
1 10 09	✓			7.5
1 12 09	✓			7.5
1 13 09	✓			7.5
1 14 09	✓			7.5
1 15 09	✓			7.5
1 16 09	✓			7.5
1 19 09	✓			7.5
1 20 09	✓			7.5
1 21 09	✓			7.5
1 22 09	✓			7.5
1 23 09	✓			7.5
1 24 09	✓			7.5
1 26 09	✓			7.5
1 27 09	✓			7.5
1 28 09	✓			7.5
1 29 09	✓			7.5
1 30 09	✓			7.5
2 2 09	✓			7.5
2 3 09	✓			7.5
2 4 09	✓			7.5
2 5 09	✓			7.5
2 6 09	✓			7.5
2 7 09	✓			7.5
2 9 09	✓			7.5
2 10 09	✓			7.5
2 11 09	✓			7.5
2 12 09	✓			7.5
2 13 09	✓			7.5
2 14 09	✓			7.5
2 16 09	✓			7.5
2 17 09	✓			7.5
2 18 09	✓			7.5
2 19 09	✓			7.5
2 20 09	✓			7.5
2 21 09	✓			7.5
2 23 09	✓			7.5
2 24 09	✓			7.5
2 25 09	✓			7.5
2 26 09	✓			7.5
2 27 09	✓			7.5
2 28 09	✓			7.5
3 2 09	✓			7.5
3 3 09	✓			7.5

Linco - Hammond John T (Trevor)

VAPOR DEGREASER FLUID

USAGE LOG

Please write down the amount of trichlorethylene added s well as date and time

Date		Time		Gallons Added	
5 12 08	XXX	1230	XXX	OUT	75
5 12 08	XXX	130	XXX	IN	75
6 9 08	XXX	630	XXX	OUT	75
6 9 08	XXX	830	XXX	IN	75
6 12 08	XXX	530	XXX	OUT	110
6 12 08	XXX	700	XXX	IN	110
7 12 08	XXX	645	XXX	OUT	110
7 12 08	XXX	750	XXX	IN	110
8 16 08	XXX	700	XXX	OUT	175
8 16 08	XXX	830	XXX	IN	75
9 13 08	XXX	700	XXX	OUT	75
9 13 08	XXX	900	XXX	IN	75
10 10 08	XXX	515	XXX	OUT	110
10 10 08	XXX	700	XXX	IN	110
11 14 08	XXX	330 PM	XXX	OUT	110
11 15 08	XXX	7 AM	XXX	IN	110
12 8 08	XXX	400 PM	XXX	OUT	75
12 9 08	XXX	530	XXX	IN	75
12 30 08	XXX	6	XXX	OUT	75
12 31 08	XXX	8 30	XXX	IN	75
1 10 09	XXX	630	XXX	OUT	55
1 10 09	XXX	830	XXX	IN	35
1 21 09	XXX	1100	XXX	IN	16
	XXX		XXX		
	XXX		XXX		
	XXX		XXX		
	XXX		XXX		
	XXX		XXX		
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55
55

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM

July 22, 2009

TO: Files

THROUGH: J. Trevor Hammons, Environmental Attorney
Office of the General Counsel

THROUGH: Kendal Stegmann, Senior Environmental Manager
Compliance and Enforcement Group

THOUGH: Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement Group -- ROAT

FROM: Helen King, Environmental Programs Specialist
Compliance and Enforcement Group – ROAT

SUBJECT: Limco Airepair Inc., 5304 South Lawton Avenue, Tulsa
Closure Memo (Enforcement Case #4685)

Enforcement Case Summary
This enforcement case was opened on November 20, 2008 after a full compliance evaluation was conducted at the facility on November 18, 2008. During the record review it was discovered that Limco had failed to keep records required by Operating Permit #99-026-O (M-2) Specific Conditions #1 through #5. The facility was in non-compliance with NESHAP, 40 CFR 63, Subpart T, Standards for Halogenated Solvent Cleaning. The critical issue of the enforcement case was the operation and maintenance of the vapor degreaser. This vapor degreaser used trichloroethylene solvent. The facility failed to keep proper records according to Subpart T.
A compliance plan was received on January 23, 2009 and approved by the Department. The Department received the Annual Report & Annual Solvent Emissions Report, plus the Semiannual Exceedance Report on February 24, 2009. This report was in compliance with Subpart T.
On July 22, 2009, a partial compliance evaluation (PCE) was conducted at the facility to review records and monitoring of the vapor degreaser. All records and monitoring are being conducted daily on the first shift. The facility has replaced the hoist with a slower calibrated hoist. The facility appears to be in compliance with all of the requirements of the permit and Subpart T.

Penalty Summary
No penalty was assessed.

July 22, 2009

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Bill Williams
EH&S Manager
5304 S. Lawton Ave
Tulsa, Oklahoma 74107

Re: **Limco Airepair Inc., and Aeroduct, 5304 S Lawton Ave. Facility**
Closure of Enforcement Case #4685

Dear Mr. Williams,

On November 18, 2008, The Oklahoma Department of Environmental Quality (Department) conducted an on-site evaluation at Limco Airepair Inc. (Facility) in Tulsa Oklahoma. It was discovered during record review and the physical tour, the Facility was not keeping proper records and conducting monitoring as required in Operating Permit #99-026-O (M-2) and the National Emissions Standards for Hazardous Air Pollutants for Source Categories (NESHAP), 40 CFR 63, Subpart T, Standards for Halogenated Solvent Cleaning.

A compliance plant submitted to the Department was received on January 23, 2009 and approved by the Department. The Department received the Annual Report & Annual Solvent Emissions Report and the Semiannual Exceedance Report on February 24, 2009. No violations or deviations were noted.

On July 22, 2009, a partial compliance evaluation (PCE) focusing on the vapor degreaser was conducted at the Facility to review records and monitoring. The Department found all records and monitoring are being conducted daily on the first shift. The Operator records the required data on a log sheet.

After review of the records and a physical evaluation of the vapor degreaser, the Facility appears to be in compliance with Permit #99-026-O (M-2) and NESHAP Subpart T. If at any time in the future, the Facility adds equipment and/or processes that may increase the emission, the Department may require a review of the Facility. The Department appreciates your cooperation in resolving this matter, and considers Enforcement Case #4685 closed.

If you have any questions, contact Helen King of the Department at (918) 293-1612.

Sincerely,

_____

Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement Group -- ROAT

King, Helen

From: Stegmann, Kendal
Sent: Thursday, July 23, 2009 8:45 AM
To: King, Helen
Subject: RE: Limco Closure Memo 4685.doc

Looks good

From: King, Helen
Sent: Wednesday, July 22, 2009 2:38 PM
To: Stegmann, Kendal
Subject: FW: Limco Closure Memo 4685.doc

Please review.

From: Jeffries, Rhonda
Sent: Wednesday, July 22, 2009 2:35 PM
To: King, Helen
Subject: FW: Limco Closure Memo 4685.doc

A couple of tiny edits.

Rhonda Jeffries
Environmental Programs Manager
(918)293-1626
Rhonda.Jeffries@deq.ok.gov

From: King, Helen
Sent: Wednesday, July 22, 2009 2:20 PM
To: Jeffries, Rhonda
Subject: Limco Closure Memo 4685.doc

<< File: Limco Closure Memo 4685.doc >> For review.
<< File: Limco 4685 Closure letter.docx >>

King, Helen

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A couple of tiny edits.

Rhonda Jeffries
Environmental Programs Manager
(918)293-1626
Rhonda.Jeffries@deq.ok.gov

From: King, Helen
Sent: Wednesday, July 22, 2009 2:20 PM
To: Jeffries, Rhonda
Subject: Limco Closure Memo 4685.doc

<< File: Limco Closure Memo 4685.doc >> For review.
<< File: Limco 4685 Closure letter.docx >>

Enforcement Details - Report

Date Printed: 7/22/2009
Printed By: hking

Enforcement ID	4685	Date referred	11/20/2008	Date closed	7/22/2009	Facility ID	3620

Facility	5304 S LAWTON AVE	Company	LIMCO AIREPAIR INC AND AERODUCT	SIC	3728
County	TULSA	HPV Status		Facility Compliance statu	In Compliance	Active	
Referral source	Compliance	DiscoveryDate	11/18/2008	Priority	5
Staff Assigned	King	Date Assigned	11/20/2008	Formal Action	No
Attorney:	Hammons	Case Number		ECLS Contact:	Fleming

Critical Dates:	Day Zero:	2/16/2009	Day 60:	4/17/2009	Day 150:	7/16/2009	Day 270:	11/13/2009

	Sent	Receipt	Comp Plan Rec'd	Executed	Deadline	Reply	To EPA:
RFI							
Level III Ltr							
Alt Enf Ltr	12/10/2008	12/15/2008			12/25/2008		
NOV							
CO							
ACO							

Penalties Owed:
Penalties Paid:
Mod Staff: hking
Mod Date: 7/22/2009

Violations

Rule	Rule Description	Comments
PART 63 NESHAP Subpart T	Halogenated Solvent Cleaning	Record Keeping and Non submittal of reports
OAC 252:100-7	Permits	No notification of degreaser replacement.

Case specific Compliance Status

Pollutant	Air Program	Compliance
FACILITY-WIDE PERMIT REQUIREMENTS	MACT (Section 63 NESHAPS)	3
FACILITY-WIDE PERMIT REQUIREMENTS	SIP Source	3
Methyl ethyl ketone (2-Butanone)	MACT (Section 63 NESHAPS)	3
Methyl ethyl ketone (2-Butanone)	SIP Source	3
TOTAL HAP POLLUTANT	MACT (Section 63 NESHAPS)	3
TOTAL HAP POLLUTANT	SIP Source	3
VOLATILE ORGANIC COMPOUNDS	MACT (Section 63 NESHAPS)	3
VOLATILE ORGANIC COMPOUNDS	SIP Source	3

Actions

Action	Action Date	Action Staff	Contact Last Name	First Name	Contact Company
Evaluation	7/22/2009	King	WILLIAMS	BILL	LIMCO AIREPAIR INC AND AERO
Comment	PCE conducted at facility to close enforcement case. PCE focus was on the vapor degreaser. The faciltiy is keeping all of the required permit records for the degreaser. A new slower hoist has been installed per regulations. The facility was to close June 1, 2009 but has been sold to TAT International and are unsure of the future. The facility is running two 8-hour shifts.				
Non-HPV Resolved	7/22/2009	King			
Comment					
Next Step	5/19/2009	King			
Comment	Schedule PCE.				
Memo/Notes	5/18/2009	King			
Comment	Email from S. Penn reassigning this case to new lawyer Trevor Hammons, who will start June 1st.				

Enforcement Details - Report

Date Printed: 7/22/2009
Printed By: hking

Enforcement ID	4685	Date referred	11/20/2008	Date closed	7/22/2009	Facility ID	3620

Next Step	3/31/2009	King			
Comment	Conduct enforcement evaluation.				
Info-received	2/24/2009	King	WILLIAMS	BILL	LIMCO AIREPAIR INC AND AERO
Comment	Annual Solvent Emissions report and semi annual exceedence report complying with 40 CFR Part 63, Subpart T.				
Next Step	2/17/2009	King			
Comment	Facility announced to media, the plant will be closing and combinding operation in another state by June. No formal notice has been filed with the DEQ. Will conduct enforcement evaluation on facility before closure.				
Non-HPV Day Zero	2/16/2009	King			
Comment	Waiting on some reports from the facility.				
Next Step	2/3/2009	King			
Comment	Conduct another evaluation of the faciltiy to show compliance with plan.				
Phone	1/23/2009	King			
Comment	Mr. Williams called to discuss compliance plan. Compliance plan never received at Department. Mr. Williams faxed compliance plan to inspector.				
Compliance Plan Rec'd	1/23/2009	King			
Comment					
Next Step	1/23/2009	King			
Comment	Review Compliance plan				
Memo/Notes	1/21/2009	King			
Comment	After FCE and Alternative letter was received on December 15, 2008. The faciltiy should have contacted the inspector by December 25, 2008. No contact from the faciltiy was made. Compliance plan was due by January 14, 2009. Another week was added because of the Christmas/New Years Holidays. As of Wednesday, January 21, 2009, no contact has been made by the facility to the Department.				
Next Step	1/21/2009	King			
Comment	Email from Sarah Penn instructing inspector to draft NOV.				
Memo/Notes	1/12/2009	King			
Comment	No response from facility on enforcment case or alternative letter.				
Alt Enf Ltr-deadline	12/25/2008	King			
Comment	Because of the Christmas Holiday the date for responding to the alternative letter has been extended two weeks to January 8, 2009.				
Alt Enf Ltr-receipt	12/15/2008	King			
Comment	Alternative letter received. Green card signed by Lynn Grimm on 12/15/08.				
Alt Enf Ltr-sent	12/10/2008	King			
Comment	FCE with alternative letter sent to facility.				
Memo/Notes	12/9/2008	King			
Comment	Report and enforcement letter okayed by Kendal Stegmann and Sarah Penn. Waiting for Rhonda's signature to mail report.				

Enforcement Details - Report

Date Printed: 7/22/2009
Printed By: hking

Enforcement ID	4685	Date referred	11/20/2008	Date closed	7/22/2009	Facility ID	3620

Memo/Notes	12/5/2008	King			
Comment	FCE report to peer review.				
Phone	11/20/2008	King			
Comment	Telephone conversation with Mr. Greg Steele (Consulltant). Mr. Steel stated he thought the faciity had changed from perc or tric to a non-solvent cleaner. Mr. Craft stated the facility did try EnEolv Degreaser for awhile but went back to Tric.				
Evaluation	11/18/2008	King			
Comment	Evaluation conducted with Mr. Bill Williams and Mr. Dan Craft of the Facility .				
Comment					

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

December 10, 2008

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Dan Craft
Senior Vice President
Limco Airepair Inc. and Aeroduct
5304 S. Lawton Ave.
Tulsa, Oklahoma 74107

Re: Air Quality Full Compliance Evaluation at Limco Airepair Inc.

Dear Mr. Craft,

The Oklahoma Department of Environmental Quality, Air Quality Division (Department) conducted a compliance evaluation at the above referenced facility on November 18, 2008. A copy of the final report is attached for your review. Please note that compliance issues have been identified in the summary section of the report.

The purpose of this letter is to offer Limco an alternative option to resolve the non-compliance issues other than traditional enforcement including the issuance of a Notice of Violation. If Limco elects to pursue this option, please call Helen King at (918) 293-1612 within ten (10) calendar days of receipt of this letter. Within twenty (20) calendar days after contacting the inspector, provide a written compliance plan and schedule, and a proposal for resolution of the violations. If it is necessary to conduct a meeting to discuss the issues, the Department will contact you after review of the compliance plan. If there are factual errors (i.e., transposed numbers, misreading of a record, etc.), the facility may provide proof of the error in the compliance plan; however, this process will not include a dispute of the issues of non-compliance. If Limco wishes to dispute the findings alleged in the report, the issues will be addressed through the traditional enforcement process following the issuance of a Notice of Violation.

If you have any questions, please contact Helen King of the Department at (918) 293-1612 or Email helen.king@deq.ok.us.

Sincerely,

Rhonda Jeffries, Environmental Programs Manager
Regional Office at Tulsa
Air Quality Division

Enclosure: Evaluation Report #04057, Dated December 5, 2008

7006 2760 0002 5853 5248

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City, State, ZIP+4

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- Certified Mail is *not* available for any class of international mail.
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- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 *(Reverse)* PSN 7530-02-000-9047

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dan Craft, Sr. V.P.
Limco Airepair Inc & Aeroduct
5304 S. Lawton Ave.
Tulsa, OK 74107

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Lynn Grimm ☑ Agent ☐ Addressee

B. Received by *(Printed Name)* L. Grimm

C. Date of Delivery 12/5/08

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

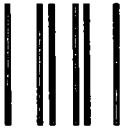
3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. A (T 7006 2760 0002 5853 5288 H.K

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

UNITED STATES POSTAL SERVICE



First-Class Mail
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USPS
Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

Department of Environmental Quality
Regional Office at Tulsa
3105 E. Skelly, Suite 200
Tulsa, OK 74105

PCE = 13042

LIMCO Airepair, Inc. Enf - 4685

45330

RECEIVED
FEB 24 2009
By HKK

February 17, 2009

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2008 Degreaser Annual Reports/ Exceedance Report

Enclosed are annual reports required for vapor degreasers (Annual Report & Annual Solvent Emissions Report) and the semiannual exceedance report. Also enclosed is a calculation worksheet that is now being used to keep the 3-month rolling totals. The enclosed reports are also in response to compliance evaluation #04057 conducted by Helen King.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facilities Manager

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2008		Ending Date:	January 31, 2008	
	All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).					

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	1893.4

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	February 17, 2009
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					
Reporting Period	Beginning Date:	January 1, 2008		Ending Date:	January 31, 2008	

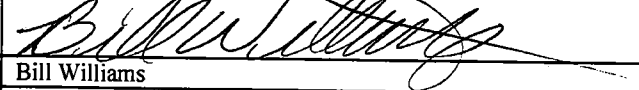
Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		157.8

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.
[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	49.69	49.7				
2	49.69	49.7				
3	49.69	49.7				
4	49.69	49.7				
5	49.69	49.7				
6	49.69	49.7				
7	49.69	49.7				
8	49.69	49.7				
9	49.69	49.7				
10	49.69	49.7				
11	49.69	49.7				
12	49.69	49.7				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).
[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	2-17-2009
Responsible Official Title	Facilities Manager	Phone	918-445-4300

LIMCO Airepair, Inc.

VAPOR DEGREASER 3-MONTH ROLLING TOTAL

2008 EMISSIONS

	TCE (gal) Added	TCE (gal) Removed	Sludge Removed	Emissions	3-Month Rolling Total	
Nov	110.833	82.25	0	49.69		Nov (2007)
Dec	110.833	82.25	0	49.69		Dec (2007)
Jan	110.833	82.25	0	49.69	49.7	Jan
Feb	110.833	82.25	0	49.69	49.7	Feb
Mar	110.833	82.25	0	49.69	49.7	Mar
Apr	110.833	82.25	0	49.69	49.7	Apr
May	110.833	82.25	0	49.69	49.7	May
June	110.833	82.25	0	49.69	49.7	June
July	110.833	82.25	0	49.69	49.7	July
Aug	110.833	82.25	0	49.69	49.7	Aug
Sept	110.833	82.25	0	49.69	49.7	Sept
Oct	110.833	82.25	0	49.69	49.7	Oct
Nov	110.833	82.25	0	49.69	49.7	Nov
Dec	110.833	82.25	0	49.69	49.7	Dec
Total Lbs.	16186.05	12011.79				
lbs put in	#VALUE!					
Per Month	1348.8					

Average Monthly Solvent Consumption=
pounds put into degreaser minus pounds taken out

lbs.Waste Per Month	1001.0	347.9	lbs/mo	157.8	kg/mo
		4174.3	lbs/yr	1893.4	kg/yr
	Emissions	2.1	ton/yr		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period	Semiannual Reporting		January – June (Due July 30)		x	July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep	Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

☐ No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	Tally S/N379	Date of Occurrence:	November 18, 2008
Exceedance:	Air Quality full Compliance Evaluation	Cite:	Evaluation Rpt. #04057
Reason for the Exceedance:			
Actions Taken:	Developed Compliance Plan		

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for re
parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted leve
exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional co

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on informatio
reasonable inquiry, I certify that the statements and information contained in this notification are true, acc**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	
Responsible Official Title	Facilities Manager	Phone	

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

December 19, 2008

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Dan Craft
Senior Vice President
Limco Airepair Inc. and Aeroduct
5304 S. Lawton Ave.
Tulsa, Oklahoma 74107

Re: Air Quality Full Compliance Evaluation at Limco Airepair Inc.

Dear Mr. Craft,

The Oklahoma Department of Environmental Quality, Air Quality Division (Department) conducted a compliance evaluation at the above referenced facility on November 18, 2008. A copy of the final report is attached for your review. Please note that compliance issues have been identified in the summary section of the report.

The purpose of this letter is to offer Limco an alternative option to resolve the non-compliance issues other than traditional enforcement including the issuance of a Notice of Violation. If Limco elects to pursue this option, please call Helen King at (918) 293-1612 within ten (10) calendar days of receipt of this letter. Within twenty (20) calendar days after contacting the inspector, provide a written compliance plan and schedule, and a proposal for resolution of the violations. If it is necessary to conduct a meeting to discuss the issues, the Department will contact you after review of the compliance plan. If there are factual errors (i.e., transposed numbers, misreading of a record, etc.), the facility may provide proof of the error in the compliance plan; however, this process will not include a dispute of the issues of non-compliance. If Limco wishes to dispute the findings alleged in the report, the issues will be addressed through the traditional enforcement process following the issuance of a Notice of Violation.

If you have any questions, please contact Helen King of the Department at (918) 293-1612 or Email helen.king@deq.ok.us.

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
		MONITORING PROCEDURES		
1)	This facility provided the set temperature of 214 °F and the actual temperature of 181 °F. No records or daily log sheets were provided to show compliance.	63.466 (a) ---**shall conduct monitoring and record the results on a weekly basis for the control devices (a)(1)** If a freeboard refrigeration device is used to comply with these standards, the owner or operator shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode.	**Monitor Temperature Initially, document each day during operation** Monitor temperature and document on a log sheet each day of use.	**Immediately** Completed L&L sheet made
2)	The vapor degreaser was properly covered	63.466 (b)—**conduct monitoring and record the results on a monthly basis for the control devices as appropriate 63.466 (b)(1)**If a cover is used to comply with these standards, the owner shall conduct visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of crack, holes, and other defects.	**Keep Cover Properly Closed and Operating, document Monthly** Document monthly (when the vapor degreaser is in operation) on a log sheet that the cover is in compliance with proper operation, proper opening/closing, and that it completely covers the cleaning machine, free of cracks, holes and other defects.	**Immediately**
3)	The facility has never tested to determine dwell time to comply with NESHAP, 40 CFR 63.465(d) standards.	63.466 (b)—**conduct monitoring and record the results on a monthly basis for the control devices as appropriate** 63.466 (b)(2) If a dwell is used, **determine the actual dwell time** by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning using the procedure specified in	**Measure Dwell Time initially, document Monthly** Document monthly (when the vapor degreaser is in operation) on a log sheet that the dwell has been tested and is appropriate.	**Immediately**

JAN-23-2009 10:58A FROM:MAIN FAX 9184468704 TO:9182931631 P.2

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
		63.465(d)(1) and (2): (d)(1)Determine the amount of time for the part or parts basket to cease dripping once placed in the vapor zone. The part or parts basket used for this determination must be at room temperature before being placed in the vapor zone (d)(2) The proper dwell time for parts to remain in the free board area above the vapor zone is no less than 35 percent of the time determined in paragraph (d)(1) of this section.		
✓4)	The facility could not provide records or daily logs recording hoist speed. The facility does not monitor the hoist speed monthly.	63.466 (c) –each owner shall monitor the hoist speed as described in (c) (1) through (c)(4) (c) (1)**Hoist speed will be determined** by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute). (c) (2) **The monitoring shall be conducted monthly,** if after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly.	**Measure Hoist Speed Initially, document Monthly** Document monthly (when the vapor degreaser is in operation) on a log sheet that the hoist speed has been measured and is appropriate.	**Immediately**
RECORDKEEPING REQUIREMENTS				
5)	This facility does not maintain records for the batch vapor degreaser according to 63.463 (a)(1) through (7). The facility did	63.467 (a) owners complying with provisions of 63.463-**shall maintain record** in written or electronic form specified in paragraphs **(a)(1) through**	**Keep records on file for:** 1. Operating manual for vapor degreaser 2. Logs for dwell time and	**Immediately**

JAN-23-2009 10:58A FROM:[redacted]N FAX 9184468704 TO:9182931631 P.3

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
	not provide copies of the manual or MSDS to the inspector. Mr. Weyley showed the inspector the maintenance and operating manual for the vapor degreaser. It is located at the equipment area along with the MSDS for the trichloroethylene. The facility did not provide any records to the inspector. The facility has never tested to determine dwell time to comply with these standards. The facility keeps records of monthly addition and removal of solvent from the cleaning machine. The records were incomplete.	(7) or this section for the **lifetime of the machine.** (a)(1) Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and cleaning equipment. (a)(3) If a dwell is used to comply with these standards, records of the tests required in 63.465(d) (a)(5)Records of the halogenated HAP solvent content for each solvent used in the solvent cleaning machine subject to the provision of this subpart.	records of test 3. Measured temperature 4. Operating cover observations 5. Hoist Speed 6. MSDS for trichloroethylene to show HAP content	
6)	The facility does keep records of solvent addition to the cleaning machine. The facility contracts with Reinco Environmental to transport and dispose of the solvent waste from the machine. The facility could not provide any test results for the waste. The facility could not provide a calculation sheet showing how monthly and rolling 3-month average emission are calculated.	63.467(c) **---shall maintain records** specified in paragraphs **(c)(1) through (3)** of this section either in electronic or written form for a period of 5 years. (c)(1) the dates and amounts of solvent that are added to the solvent cleaning machine (c) (2) The solvent composition of waste removed from the cleaning machines as determined using the procedure described in 63.465 (c) (2) (c) (3) Calculation sheets showing how monthly emissions and the rolling 3-month average emissions from the	**Keep records on file for:** 1. Dates and amounts of solvent that are added and removed to/from the vapor degreaser 2. Solvent Composition of the waste removed from the vapor degreaser as determined by procedure 63.465(c)(2) 3. Monthly emissions and 3-month average emissions showing calculations	**Immediately**

JAN-23-2009 10:58A FROM:MAIN FAX 9184468704 TO:9182931631 P.4

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
	The inspector was unable to determine compliance with Specific #1. The facility does not keep records of material usage (monthly and 12-month rolling totals).	solvent cleaning machine were determined, and the results of all calculations.		
		REPORTING REQUIREMENTS		
7)	This facility has not submitted an annual report since January 26, 2005 according to requirements of 63.468. The inspector spoke with Mr. Tom Weyley, the only operator for the cleaning machine, Mr. Weyley stated he was properly trained to operate the machine and showed the inspector the operating procedure in a binder on the desk. The facility did not report an estimate of solvent consumption or each solvent cleaning machine during the reporting period. The facility does not submit a report for MACT Subpart N. DEQ Form #100-435 has not been submitted as required by 63.468(f)	63.468(f) **Each owner** or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of 63.463 **shall submit an annual report by February 1 of the year following the one for which the reporting is being made.** This report shall include the requirements specified in paragraphs (f)(1) through (f)(3) of this section. (f)(1) a signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of the solvent cleaning machines and their control devices sufficient to pass the test required in 63.463(d)(1). (f)(2) an estimate of solvent consumption or each solvent cleaning machine during the report period. (f)(3) The reports required under (f) and (g) of this section can be combined into a single report for each facility.	**Submit report** as required under paragraphs (f) and (g) and combine into a single report for the facility to the ODEQ. Utilize DEQ form #100-435, submit by **February 1**.	**February 1**

JAN-23-2009 10:59A FROM:MAIN FAX 9184468704 TO:9182931631 P.5

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
8)	The facility has not submitted a solvent emission report annually. The facility did not provide manufactures data for the cleaning machine to the inspector. The facility could not provide documentation of monthly solvent consumption. DEQ Form # 100-436 was not submitted as required by 63.468(g)	63.468(g): **Each owner** or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of 63.464 **shall submit a solvent emission report every year.** This solvent emission report shall contain the requirements specified in paragraphs (g)(1) through (g)(4) of this section. (g)(1) The size and type of each unit subject to this subpart (solvent/air interface area or cleaning capacity. (g)(2) the average monthly solvent consumption for the solvent cleaning machine in kilograms per month. (g)(3) The 3-month monthly rolling average solvent emission estimates calculated each month using the method as described in 63.465(c). (g) (4) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.	**Submit report** as required under paragraphs (f) and (g) and combine into a single report for the facility to the ODEQ. Utilize DEQ form #100-436: Due **February 1.**	**February 1**
9)	This facility has not submitted a semiannual exceedance report for the solvent cleaning machine since January 26, 2005.The facility stated maintenance and repair has been done on the cleaning machine but not reported to the Department. This facility has not reported an exceedance. This	63.468 (h) **Each owner** or operator of a batch vapor or in-line solvent cleaning machine **shall submit an exceedance report to the Administrator semiannually except** when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an	**Submit DEQ form #100-437** as required for exceedance reporting. January through June: Due July 30: July through December: Due January 30	**January 30 July 30**

JAN-23-2009 10:59A FROM:MAIN FAX 9184468704 TO:9182931631 P.6

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
	facility does not submit a report to the department. ODEQ Form #100-437 was not submitted.	exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs (h)(1) through (3) of 63.468. (h)(1) Information on the actions taken to comply with 63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. (h)(2) If an exceedance has occurred, the reason for the exceedance and the description of the actions taken. (h)(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.		
10	The facility has not submitted an exceedance report since January 26, 20006. The inspector did not receive or review any	63.468 (i) **An owner** or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis **may reduce the frequency of reporting**	Submit DEQ form #100-437 as required for exceedance reporting. **Not applicable at this time.**	**Not applicable at this time**

JAN-23-2009 11:00A FROM:MAIN FAX 9184468704 TO:9182931631 P.7

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
	documentation showing a full year of compliance. This facility is in non-compliance for all recordkeeping and monitoring of equipment specified in subpart A and subpart T. The Administrator never received a letter from the facility requesting reduce frequency of reporting.	**to semiannual if the conditions in paragraphs (i)(1) through (i)(3)** of this section **are met.** (i)(1) the source has demonstrated a full year of compliance without an exceedance (i)(2) the owner or operator continues to comply with all relevant recordkeeping and monitoring requirements specified subpart A (General Provisions) and in this subpart (i)(3) the Administrator does not object to reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of subpart A (General Provisions)		
		AIR PERMIT		
11	**Air Permit Specific Condition #1:** The facility could not provide material usage records to the inspector for the period requested. **Air Permit Specific Condition #2:** The facility is in non-compliance for failure to maintain written documentation to show compliance. **Air Permit specific Condition #3:** The facility does not keep proper records for the degreaser. Subpart T compliance report DEQ Forms #100-432 have not been submitted to the Department since	(1)See Air Permit (2) See Air Permit (3) See Air Permit (4) Condition #4(a) (b) and (c)	**(1) Maintain workweek usage records for toluene, xylene, 805 resin, trichloroethylene, MEK, Mineral Spirits, IPA, and various paints** (2) Maintain written documentation **(as described in above corrective actions)** to show compliance with all Federal, State, and Local Rules, Regulations, and codes. (3) Keep records and submit	**Immediately**

JAN-23-2009 11:00A FROM:MAIN FAX 9184468704 TO:9182931631 P.8

LIMCO AIREPAIR INC. CORRECTIVE ACTION PLAN
FOR ODEQ AIR QUALITY FULL COMPLIANCE EVALUATION

Item #	Finding	Standard	Corrective Action	Implementation Date/Due Date
	January 26, 2006. **Air Permit Specific Condition #4:** The degreaser was not in operation at the time of this inspection therefore the inspector was unable to determine compliance with Specific Condition #4 (a)(b), and (c). **Air Permit Specific Condition #5:** The facility was unable to provide records sufficient to demonstrate weekly average of product usage. The inspector was unable to determine compliance with specific condition #1 of the Air Permit. The facility does not keep records of material usage (monthly and 12-month rolling totals).		required reports for the degreaser **as described in above corrective actions.** (4) (a) Document correct operation of working mode cover **as listed in above corrective action** **(b) Maintain safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.** **(c) Freeboard ratio must be no less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover.**	

JAN-23-2009 11:01A FROM:MAIN FAX 9184468704 TO:9182931631 P.9

Sincerely,

Rhonda Jeffries, Environmental Programs Manager
Regional Office at Tulsa
Air Quality Division

Enclosure: Evaluation Report #04057, Dated December 5, 2008

COMPLIANCE EVALUATION REPORT TRACKING

(The following is to be completed by the report writer)

Company, Facility Name, Location LIMCO AIREPAIR - TULSA

Name of Inspector/Report Writer HELEN KING

Type of Evaluation (FCE/PCE) 04057 **PCE Focus** _____

Date of Evaluation 11/18/08

Source Classification: PSD ☐ Major ☐ Synthetic Minor-80 ☐
Synthetic Minor (non SM80) ☒ Minor ☐

Recommended Action: Level 1 (HPV) ☐ Level 1 (non-HPV) ☒ Level 2 ☐
Level 3 ☐ RFI ☐ None ☐

Enforcement Memo/Day Zero Form Attached ☒ **TEAM Facility Page Attached** ☒

(The following is to be completed by the reviewer or Maria as indicated)

Date Submitted for Initial Review (Maria) 12/05/08

Date Returned to Writer (if necessary) (Maria) _____ **Reviewer Initials** ___

Date Submitted for Second Review (if necessary) (Maria) _____
(If a report has been returned to the writer twice without being approved, the writer needs to consult with the person who returned it, prior to submittal for the second review)

Date Approved by Reviewer 12-5-08 **Reviewer Initials** RT

Date to Manager (Maria) 12-5-08 **Manager Initials** RG

Date Returned to Writer ( ) or Peer Reviewer ( ) (if necessary) (Maria) _____

Date to Legal (Maria) _____ **Legal Initials** _____

If Facility is a SM-80, Date Sent to Jeff Dye (Maria) _____ **Initials** ___

Approved to (check one) File ☐ **or Enforcement** ☑ **Date** 12-5-08

Sent to Company Representative by Email ☐ **or Certified Mail** ☐ **Date** _____

Facility Details - Report

Date Printed: 11/14/2008

Printed By: hking

Facility ID: 3620 MFL ID:

Facility: 5304 S LAWTON AVE

Company: LIMCO AIREPAIR INC AND AERODUCT

Mod Staff: mcollard

Mod Date: 5/24/2004

SIC code: 3728 NAICS: 332912 Insp Code: 3 AIRS Batch Ready: ☑

County: TULSA Classification: Syn-Min CMS Cat: S CMS Min Freq: 5

Sub-Locator: Section: 35 Township: 19N Range: 12E

UTM Horz: 239.421 UTM Ver: 3982.281 UTM Zone: 15 LAT: 35.95011 LONG: -95.88902

AIRS ID: 143-00155 Govt Code: 0 Facility APC: 0M

Operating Status: Operating Compliance Status: 3 HPV Status:

Category: General Toxics Present: Yes

Physical Address (No P.O. Box or Rural Route)

Street: 5304 S LAWTON AVE

City: TULSA

State: OK Zip: 74107-

Phone: (918) 445-4314

Company Mailing Address

Street: 5304 S LAWTON AVE

City: TULSA

State: OK Zip: 74107-

Phone: (918) 445-4300

Facility Responsible Official

Facility Pollutants: Toxics Y/N/P: Yes

Pollutant	Class	Permit Max	AP Codes
TOTAL HAP POLLUTANT	Syn-Min	8.7	0M
VOLATILE ORGANIC COMPOUNDS	Syn-Min	19	0M
Methyl ethyl ketone (2-Butanone)	Syn-Min	6.8	0M

Facility Points

Point Serial Number:	Point ID:	Point Sequence:	Point Status:	Point Name:
0	16499	1	Active	Wipedown
0	16500	2	Active	Vapor Degreaser
0	16501	3	Active	Paint Booth
0	17194	4	Active	Dip Coating
0	18608	5	Active	Testing

Applicable Regulations:

NSPS: n/a NESHAP's - 61: n/a MACTs: T PSD: No

SOP20 Source: No

NSPS's

NESHAP's

MACT's

T

Driving Directions

Behind Pepsi Plant off I-44 west of the river

Comments

UTM is corrected GPS

Inspection History

Last FCE Date: 12/30/2003 Last FCE Staff: Joyner Last FCE Target: 2009

Last PCE Date: 1/31/2006 Last PCE Staff: Jeffries Last PCE Target:

Last Inspected: 9/9/1999 Last Inspector: Neumann

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MENORANDUM

DATE: December 5, 2008

TO: Files

TO: Legal

THROUGH: Kendal Stegmann, Senior Environmental Manager
Compliance and Enforcement Group

THROUGH: Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement --- ROAT

THROUGH: Peer Review

FROM: Helen King, Environmental Programs Specialist
Compliance and Enforcement --- ROAT

cc: Mr. Bill Williams
Contact by Email

SUBJECT: Full Compliance Evaluation (FCE) at **Limco Airepair Inc.**
5304 S. Lawton Ave.
Tulsa, Tulsa County, Oklahoma
Section 35, T19N, and R12E
Directions: Taking Hwy 75 south. Exit on I-44 East; take the first access road exit before margining onto I-44. Turn right on the access road and the first street you come to is South Lawton. Turn left onto Lawton, and the plant is at the end of the street on the right.
AIRS ID #143-00155
FCE #04057

Introduction

On Tuesday November 18, 2008, between the hours of 0800 and 1050, an unannounced full compliance evaluation was conducted at the above referenced facility. Helen King, Environmental Programs Specialist, with the Oklahoma Department of Environmental Quality --- Air Quality Division in Tulsa conducted the evaluation. Mr. Bill William, Facility Manager and Mr. Dan Craft, Chief Operating Office, represented the facility. This facility was evaluated to determine its compliance with state and federal regulations and its State of Oklahoma Air Quality Permit **#99-026-O (M-2)** issued on May 24, 2004. The inspector provided proper credentials before entering the facility.

History and Process Description

Limco manufactures, repairs various sizes of heat exchangers, and repair various sized air ducts for commercial, military, and private aircraft (SIC 3728). Processes include but not limited to manufacturing, welding/soldering, sizing/shaping, coating, cleaning, and testing. The facility is equipped with a 12' x 12' paint booth using a high volume low pressure Finishline spray gun, a 400-gallon dipping tank containing a silicon/aluminum dip solution, five (5) natural gas ovens, and one trichloroethylene vapor degreaser.
The facility operates two (2) eight (8) hour shifts and employs 150 employees. The facility was established in 1946 and was originally named Long Island Metal Company.

Permit No.	Date Issued	Reason
99-026-O	01/14/2000	Initial Operating Permit
99-026-O (M-1)	10/31/2001	Combined two operating facilities into one
99-026-O (M-2)	05/24/2004	Modify emissions limits and update material

Emissions/Source Classification

This facility is classified a "synthetic minor" source for volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). The HAPs are mostly trichloroethylene and toluene.

Reported Emissions**

Pollutant	2005 TPY	% Change	2006 TPY	% Change	2007 TPY
Volatile Organic Compounds (Non-HAP)	8.576	**-17.44**	7.08	**8.18**	7.711
Methyl isobutyl ketone	0.042	**-80.95**	0.008	**73.33**	0.03
Toluene	4.831	**-14.51**	4.13	**9.03**	4.54
Trichloroethylene	2.66	**7.00**	2.86	**4.67**	3.0
Xylenes (mixed isomers)	0.02	**81.48**	0.108	**-35.19**	0.07

**Data from annual emission inventories (Attachment B).
Decrease and increase in emissions for xylenes and methyl isobutyl ketone (MIBK) are the result of work practices.

State/Federal Regulatory Applicability

Oklahoma Air Pollution Control Rules

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas)
Part 7, Section 46 concerns coating of metals parts and products.
OAC 252:100-39-47
Per 49-46 (h), this facility is not subject to these rules because the VOC emissions from surface coating and cleaning do not exceed 10 TPY.

Federal Regulations

NESHAP, 40 CFR Part 63
Subpart T, (Halogenated Solvent Cleaners)
§63.460 Applicability and designation of source.

(a) The provisions of this subpart apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent.

The vapor degreaser at this facility uses trichloroethylene as a solvent.

§63.466 Monitoring procedures

(a)(1) If a free board refrigeration device is used to comply with these standards, the owner or operator shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode.

This facility provided the set temperature of 214°F and the actual temperature of 181°F. No records or daily log sheets were provided to show compliance.

(b)(1) If a cover (working-mode, downtime-mode, and /or idling-mode cover) is used to comply with these standards, the owner or operator shall conduct a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects.

The vapor degreaser was not in operation at the time of this evaluation but was properly covered. Mr. Tom Weyley demonstrated the opening and closing of the cover to the inspector.

(b)(2) If a dwell is used, the owner or operator shall determine the actual dwell time by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning.

The facility has never measured dwell time.

(c)(1) The owner or operator shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).

The facility has determined the hoist speed at sixteen (16) fpm (feet per minute) (Attachment D). The facility could not provide records or daily logs recording hoist speed.

(c)(2) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly.

The facility does not monitor the hoist speed monthly or quarterly per this permit.

§63.467 Recordkeeping requirements.

(a) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall maintain records in written or electronic form specified in paragraphs (a)(1) through (7) of this section for the lifetime of the machine.

This facility does not maintain records for the batch vapor degreaser. An operating manual and MSDS are kept onsite for the operator. The facility did not provide copies of the manual or MSDS to the inspector.

(a)(1) Owner's manuals, or if not available, written maintenance and operating procedures, the solvent cleaning machine and control equipment.

Mr. Weyley showed the inspector the maintenance and operating manual for the vapor degreaser. It is located at the equipment area along with the MSDS for trichloroethylene. The facility did not provide any records to the inspector.

(a)(3) If a dwell is used to comply with these standards, records of the tests required in §63.465(d) to determine an appropriate dwell time for each part or parts basket.

The facility has never tested to determine dwell time to comply with these standards.

(a)(5) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of this subpart.

The facility keeps records of monthly addition and removal of solvent from the cleaning machine (Attachment E). The records were incomplete.

(c)(1) The dates and amounts of solvent that are added to the solvent cleaning machine.

The facility does keep records of solvent addition to the cleaning machine (Attachment E).

(c)(2) The solvent composition of wastes removed from cleaning machines as determined using the procedure described in §63.465(c)(2).

The facility contracts with Reinco Environmental to transport and dispose of the solvent waste from the machine. The facility could not provide any test results for the waste.

(c)(3) Calculation sheets showing how monthly emissions and the rolling 3-month average emissions from the solvent cleaning machine were determined, and the results of all calculations.

The facility cannot provide a calculation sheet showing how monthly and rolling 3-month average emissions are calculated.

§63.468 Reporting Requirements

(f) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the requirements specified in paragraphs (f)(1) through (f)(3) of this section.

This facility has not submitted an annual report since January 26, 2005.

(f)(1) A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in §63.463(d)(1)."

The inspector spoke with Mr. Tom Weyley, the only operator for the cleaning machine. Mr. Weyley stated he was properly trained to operate the machine and showed the inspector the operating procedure in a binder on the desk.

(f)(2) An estimate of solvent consumption or each solvent cleaning machine during the reporting period.

The facility does not report this.

(f)(3) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.

The facility does not submit a report for MACT Subpart N.

(g) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.464 shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified in paragraphs (g)(1) through (g)(4) of this section.

The facility does not submit a solvent emission report annually.

(g)(1) The size and type of each unit subject to this subpart (solvent/air interface area or cleaning capacity).

The facility did not provide manufactures data for the cleaning machine to the inspector.

(g)(2) The average monthly solvent consumption for the solvent cleaning machine in kilograms per month.

The facility could not provide documentation of monthly solvent consumption.

(g)(3) The 3-month monthly rolling average solvent emission estimates calculated each month using the method as described in §63.465(c).

The facility could not provide the 3-monthly rolling average solvent emissions.

(g)(4) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.

The facility does not submit this report to the Department.

(h) Each owner or operator of a batch vapor or in-line solvent cleaning machine shall submit an exceedance report to the Administrator semiannually except when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs (h)(1) through (3) of this section.

This facility has not submitted a semiannual exceedance report for the solvent cleaning machine since January 26, 2005.

(h)(1) Information on the actions taken to comply with §63.463 (e) and (f). this information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

The facility stated maintenance and repair has been done on the cleaning machine but not reported to the Department.

(h)(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

This facility has not reported an exceedance.

(h)(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

This facility does not submit a report to the Department.

(i)An owner or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs (i0(1) through (i)(3) of this section are met.

This facility has not submitted an exceedance report since January 26, 2006.

(i)(1) The source has demonstrated a full year of compliance without an exceedance.

The inspector did not receive or review any documentation showing a full year of compliance.

(i)(2) The owner or operator continues to comply with all relevant recordkeeping and monitoring requirements specified subpart A (General Provisions) and in this subpart.

This facility is in non-compliance for all recordkeeping and monitoring of equipment specified in subpart A and subpart T.

(i)(3) The Administrator does not object to a reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of subpart A (General Provisions).

The Administrator never received a letter from the facility requesting reduce frequency of reporting.

Evaluation/Enforcement History

FCE #01293 conducted on 12/30/03. No violations found.
PCE #00042 conducted on 10/24/01. Initial compliance evaluation.

Enforcement Case #422, opened 04/26/99 and closed 09/13/2000, was for operating without a permit.

Annual Compliance Certifications/Semiannual Reports

This facility is not subject to ACCs or SARs. They are subject to a semiannual report for NESHAP Subpart T.

Excess Emissions

No excess emissions have been reported from this facility.

On-Site Evaluation

The inspector was greeted in the lobby of the facility by Mr. Williams and escorted to a conference area. Mr. Craft joined us for the discussion of the permit and subpart T. The inspector explained the purpose of the evaluation and requested to review records. This facility has not been evaluated since 2003 and Mr. Williams and Mr. Craft were unaware of the required records or reporting. Mr. Craft stated the facility has tried a non-solvent degreaser called EnSolv but found it didn't work as well so the facility went back to using trichloroethylene. Mr. Craft also stated the facility plans to upgrade the vapor degreaser next year and try using a non-solvent degreaser again. On November 20, 2008, the inspector spoke with Mr. Greg Steele, Consultant for the facility. Mr. Steele was under the impression the facility had changed to a non-solvent cleaner and was no longer required to submit Subpart T reports. The facility does submit annual emission inventories with trichloroethylene listed as a pollutant (Attachment B). Mr. Williams and Mr. Craft escorted the inspector on the physical tour of the facility. The paint booth is a 12'X 12" enclosed room. The filtering system is two stages. The paint booth was operating with the door shut. No spraying was being conducted in the booth. The pressure magnehilic showed 0.10 inches of H_20 through the filters. A Finishline HPLV spray gun is used when coating. The filters look clean and new. Mr. Williams stated the facility contracts with Red Bud filtering company to monitor and change the filters. No rags or solvent containers were exposed to the atmosphere. All paint and solvent containers were locked in yellow chemical storage cabinets. Different parts depending on the metal alloy are cleaned either by handwipe or by degreaser. The metal alloy determines how long the part(s) are in the degreaser. The degreaser was not in operation at the time of this inspection. The inspector observed the cover was closed and properly attached to the unit. The area was clean of any solvent. The inspector spoke with Mr.

Tom Weyley, degreaser operator concerning record keeping. Mr. Weyley showed the inspector the record logs for parts to be cleaned. Maintenance and operating manual are kept in the area along with the MSDS for trichloroethylene. Solvent usage is reported for inventory purposes. The degreaser was equipped with a chiller, correct freeboard, hoist and emergency power switch. After cleaning the parts are dried in natural gas ovens. The inspector observed the cleaning tanks containing different chemicals for cleaning and etching. The parts are rinsed with water and dried in ovens before coating processes. A small enclosed room contains the dip tank. The 400-gallon dip tank is used to coat parts with silicone/aluminum and left to dry over the dip tank. The parts are left to dry over the dip tank. This room vents to the outside with fresh air vented back in. The recordkeeping and reporting issues were discussed before the inspector left the facility.

Specific Condition for Permit #99-026-O (M-2)

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	**POLLUTANT**	**Permit Limits**	
		PPH	**TPY**
Dip Coat	Toluene	2.40	5.1
	Xylene	0.19	0.40
	805 Resin	0.20	0.43
Degreaser	Trichloroethylene	1.50	3.20
Wipe	MEK	3.20	6.80
Testing	Mineral Spirits	0.53	1.20
Wipe	IPA	0.82	1.80
Paint	Various	0.22	0.50

Reported Emissions*

Emission Points	**Pollutant**	**2005 TPY**	**2006 TPY**	**2007 TPY**
Wipedown	Volatile Organic (non-HAPs)	7.76	4.90	4.77
Vapor Degreaser	Tricholoethylene	2.66	2.86	3.0
	Volatile Organics (non-HAP)	-0-	-0-	2.2
Paint Booth	Volatile Organic (non-HAPs)	0.316	0.31	0.091
	Toluene	0.051	0.03	0.03
	Xylene	NR**	0.03	0.03
	Methyl isobutyl ketone	0.042	0.008	0.03
Dip Coating	Toluene	4.78	4.10	4.51

	Volatile Organics (non-HAP)	-0-	-0-	0.06
Testing	Volatile Organics (non-HAP)	0.5	1.87	0.59
	Xylenes	0.02	0.078	0.04

*Data taken from annual emission inventories (Attachment B)
NR --- Not Reported
Annual emission inventories submitted to the Department show the facility to be in compliance with emission permit limits.

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD (1)	GPY
Toluene	5.4	1,400
Xylene	0.43	110
805 Resin	0.60	157
Trichloroethylene	2.00	520
MEK	7.70	2,000
Mineral Spirits	1.37	355
IPA	2.04	530
Paints, various	0.39	100

(1) These gallons/day are work-week averages.

The facility could not provide material usage records to the inspector for the period requested.

2. Alternate products and production quantities can be varied under the following conditions.

   a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
   b. A change in either production or products is permitted provided there would be no increase in the quantity of the resulting emissions. Additionally, the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC 252:100-41.
   c. The facility shall notify the DEQ in writing 30 days before making any operational changes that would cause significant air emissions.
   d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

The facility is in non-compliance for failure to maintain written documentation to show compliance.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ regional Office at Tulsa.

The facility does not keep proper records for the degreaser. Subpart T compliance and exceedance semiannual reports DEQ Forms #100-432, #100-435, #100-436 and #100-437 have not been submitted to the Department since January 26, 2006.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

    a. The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.
    b. The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.
    c. Since Limco, has chosen Option 1 for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio no less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this subpart would be a better choice, Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.
    d. Limco will properly train each person who will operate the degreaser before they are allowed to use the machine. The written syllabus used for training will be readily available to each trained operator.

The degreaser was not in operation at the time of this inspection therefore the inspector was unable to determine compliance with Specific Condition #4 (a)(b), and (c).

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

    a. Records sufficient to demonstrate that the weekly average of the product usages do not exceed those shown in Specific Condition #1, Table No. 2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded than compliance with that pollutant's MAAC must be demonstrated.

The facility was unable to provide records sufficient to demonstrate weekly average of product usage. The inspector was unable to determine compliance with Specific #1.

b. Degreaser records required by Specific Condition #3.
The facility keeps some maintenance and operation procedures on site.

c. Material usages (monthly and 12-month rolling totals).
The facility does not keep records of material usage (monthly and 12-month rolling totals.

6. This permit supersedes all previous permits for this facility, which are now null and void.

Exit Interview and Summary
The inspector reviewed the necessary records for the facility to the gentlemen. The facility did provide an MSDS for "EnSolv-GCS Degreaser Solvent" (Attachment C). This is a non-trichloroethylene solvent tested in the degreaser but not used.

Based on the information provided or obtained during this evaluation, the following violations or deviations were discovered during this evaluation.

- The facility is in non-compliance with the specific conditions #1 thru #5 of permit #99-026-O (M-2).

- The facility is in non-compliance with National Emissions Standards for Hazardous Air Pollutants for Source Categories (NESHAP), 40 CFR 63, Subpart T, Standards for Halogenated Solvent Cleaning.

An alternative enforcement letter will be sent to the facility along with this FCE report.

Attachments
A) Air Quality Operating Permit #99-026-O (M-2)
B) Annual Emission Inventories
C) MSDS
D) Vapor Degreaser Temperature and Hoist Speed
E) Vapor Degreaser Fluid Usage Log

ATTACHMENT A

OKLAHOMA DEPARTEMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **May 24, 2004**

TO: Dawson F. Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: Richard Kienlen, P.E., Engr. Mgr. II, New Source Permits Section

THROUGH: Hal Wright, Regional Office At Tulsa

FROM: Jennifer Tyler, Regional Office At Tulsa

SUBJECT: Evaluation of Permit Application No. **99-026-O (M-2)**
Limco-Airepair, Inc. (LA)
5304 S. Lawton Ave.
Tulsa, Tulsa County, OK
Section 35, Township 19N, Range 12E
Directions: Taking Hwy 75 south you exit on I-44 East, take the first access road exit before merging onto I-44. Turn right on the access road and the first street you come to is South Lawton. Turn left onto Lawton, and the plant is at the end of the street on your right.

INTRODUCTION

Limco-Airepair, Inc. (LA) is requesting a modification of their current Operating Permit No. 99-026-O (M-1). The modification will include adding Xylene to Table No. 2 to correlate with Table No. 1, changing the wording of perchloroethylene to read trichloroethylene, and increasing the use of toluene, mineral spirits, IPA, and various paints.

PROCESS DESCRIPTION

In general, the plant has three product activities, i.e., the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.

Manufacturing Process

All ovens used for drying and soldering have a combined heat rate of 0.80 MMBTUH.

First, LA buys thin sheets of aluminum and stainless steel to use in the manufacture and repair of various products.

The steps in the manufacture of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. LA is required to test most of

the heat exchangers that are of a new design. The new units are performance tested for flow vs pressure drop of both the cooling medium (air) over the outside of the heat exchanger, and the medium to be cooled (engine lube oil, hydraulic fluid, etc.) which is on the inside of the exchanger. They are also tested for their heat transfer capabilities.

The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated.

The steps in the repair of the air ducts are: inspected for flaws, cleaned, heat dried, repairs made, cleaned, and coated.

WELDING/SOLDERING

Various types of welding are used by LA, i.e., MIG, TIG, etc.

The soldering is done by placing assembled, "tinned" parts in natural gas fired ovens. Tinning is a process where the part is coated with the required amount of solder/flux on each joint to be soldered. The part is then heated to a temperature just above the melting point of the solder to allow the solder to melt and flow into the joint to be soldered. The part is then cooled to room temperature in ambient air.

SIZING/SHAPING

This is done with conventional sheet metal shears, sheet metal brakes, stamping machines, etc.

COATING

All products are cleaned and heat dried before coating.

The parts may get some combination of four types of coatings, i.e. paint, alodine, anodize, or silicone aluminum dip. Anodizing is done by an outside contractor; all others are done by LA.

Less than 10% of all products are spray-painted. The painting is done in a totally enclosed 12' x 12' x 8' high paint booth using a high volume low pressure spraying rig. The paint over-spray is sucked through a 95% efficient dry type filter at 3,500 acfm and exhausts 8 feet above grade through a 12-inch diameter duct.

The alodine process is done by soaking the part in a bath of nitric/chromic acid, which results in the desired surface getting a coat of aluminum oxide. This process does not use heat or electric current.

Silicone/Aluminum Dip solution consists of 8.4 gallons of Toluene, 1.0 gallon of Dow #805 silicone resin, and 1.6 pounds of aluminum powder. 61.5 gallons of this solution is placed in a 400-gallon dipping tank that is located in a totally enclosed room (10 ft x 12 ft x 10 ft high) within the shop. After the part is dipped (the part is completely coated) it is hung over the tank to drip and dry. The result is the part gets a thin coat of aluminum filled silicone. The air in the dipping room

is exhausted to the outside by a 22,000 acfm fan through a dry type filter in a 14 inch diameter duct at 10 ft above grade.

Anodizing is a process where a surface on the part gets a coating of aluminum by an electrolysis process. The part is made an anode as part of an electric circuit in a bath of acid, and as a result aluminum is deposited on the part's surface.

CLEANING

Parts are cleaned by different chemicals at different stages in the manufacturing/repair processes. The parts can be cleaned by hand wiping with solvents, acid, or caustic bath followed by water rinse or trichloroethylene degreaser.

The parts are dried after the cleaning process by electric heated ovens or natural gas fired ovens.

The facility operates 16 hours per day, 5.5 days per week, and 22 days a month, or 4,224 hours per year.

EMISSIONS

The significant air emissions are from the hand wiping of parts with solvents and coating. The air emissions from parts drying (combustion of natural gas), welding, and metal sizing/shaping are negligible, and will not be included in the following emissions analysis.

Purchases of acids and caustics used in the clean lines have been tabulated in the application. The replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Limco estimates the use of trichloroethylene for the degreaser to be 520 gallons per year, which is shown in the following emission table. This includes material that was collected for reclamation. The emissions shown are the net amounts. The vapor degreaser holds 110 gallons of trichloroethylene and has a freeboard ratio of 1.3.

Materials used in cleaning and wipe down of the parts include 2,000 gallons per year (GPY) of MEK and 530 GPY of isopropyl alcohol. The use of mineral spirits in pressure testing is estimated to be 355 GPY. The facility uses 95 gallons of ten different primers, topcoats and solvents.

The following tables show the total facility VOC and HAPs emissions.

FACILITY TOTAL EMISSIONS [2]

USE	POLLUTANT	CAS NO.	HAP	CAT	De minimis		Permit limits	
					PPH	TPY	PPH	TPY
Dip Coat	Toluene	108883	Y	C	5.60	6.00	2.40	5.10
	Xylene	133027	Y	C	5.60	6.00	0.19	0.40
Degreaser	Trichloroethylene	79016	Y	A	0.57	0.60	1.50	3.20
Wipe	MEK	108101	N	C	5.60	6.00	3.20	6.80 [3]
Testing	Mineral Spirits	64742887	N	C	5.60	6.00	0.53	1.20
Wipe	IPA	67630	N	C	5.60	6.00	0.82	1.80
Paint [1]	Various	Various	NA	NA	(2)	(2)	0.22	0.50
TOTAL VOC								**19.00**
TOTAL HAPS								**8.70**

(1) If all the paint VOCs were Cat. A the de minimis would not be exceeded. (2) Does not include combustion emission pollutants, which are negligible. (3) EPA Screen3 modeling shows a maximum ground level concentration of 1,259 micrograms per cubic meter (ug/m^3) for an emission rate of 3.2 pounds per hour as compared to an allowable maximum acceptable ambient concentration (MAAC) of 59,000 ug/m^3.

The following table shows the VOC emission data comparison between the new permit and the existing permit in TPY.

Pollutant	Existing	New	Change
Paint	0.56	0.50	-0.06
Trichloroethylene	3.00	3.20	+0.20
Cleaning	7.50	6.80	-0.70
Testing	2.50	1.20	-1.30
Dip: Toluene	5.00	5.10	+0.10
Xylene	0.36	0.40	+0.04
Total	**18.92**	**17.20**	**-1.72**

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Subchapter 3 enumerates the primary and secondary ambient air quality standards and the significant deterioration increments. At this time, all of Oklahoma is in "attainment" of these standards.

OAC 252:100-4 (New Source Performance Standards) [Not Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2002, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G. These requirements are addressed in the "Federal Regulations" section.

OAC 252:100-5 (Registration, Emission Inventory and Annual Operating Fees) [Applicable]
Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants. An emission inventory was submitted and fees paid for previous years as required.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
Subchapter 7 sets forth the permit application fees and the basic substantive requirements of permits for minor facilities. Since criteria pollutant emissions are less than 100 TPY for each pollutant, and emissions of HAPs will not exceed 10 TPY for any one HAP or 25 TPY for any aggregate of HAPs, the facility is defined as a minor source. As such, BACT is not required.

OAC 252:100-9 (Excess Emissions Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as the owner or operator of the facility has knowledge of such emissions, but no later than 4:30 p.m. the next working day. Within ten (10) working days after the immediate notice is given, the owner or operator shall submit a written report describing the extent of the excess emissions and response actions taken by the facility.

OAC 252:100-13 (Prohibition of Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this subchapter.

OAC 252:100-19 (Particulate Matter (PM)) [Applicable]
Section 19-4 regulates emissions of PM from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4 -1 lists natural gas TPM emissions to be 7.6 lbs/million scf or about 0.0076 lbs/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences that consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Based on past experience with this facility, the potential for violating the standards is negligible.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originated in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or to interfere with the maintenance of air quality standards. Under normal operating conditions, this facility

has negligible potential to violate this requirement; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100-31 (Sulfur Compounds) [Applicable]
Fuel-burning equipment at this facility uses commercial natural gas. The AP-42 (2/98), Table 1.4-2 emission factor of 0.6 pounds of SO_2 per million cubic feet equates to approximately 0.0006 lbs/MMBTU. This is well below the new equipment standard of 0.2 lbs/MMBTU for gas fuel.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
This subchapter limits new gas-fired fuel-burning equipment with rated heat input greater than or equal to 50 MMBTUH to emissions of 0.2 lbs of NO_x per MMBTU, three-hour average. There are no equipment items that exceed the 50 MMBTUH threshold.

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
None of the following affected processes are located at this facility: gray iron cupola, blast furnace, basic oxygen furnace, petroleum catalytic cracking unit, or petroleum catalytic reforming unit.

OAC 252:100-37 (Volatile Organic Compounds) [Not Applicable]
-15 Storage of VOCs. This facility does not store any hydrocarbon liquids, and is not an affected source under this section.
-36 Fuel-Burning Equipment. Under this section Limco is required to adjust the burners for essentially complete fuel combustion. Limco-Airepair burns only commercial-grade natural gas in the combustion units, which promotes compliance. The facility anticipates remaining in compliance under normal operations.
-25 This section limits the VOC content of coating used in coating lines or operations for any facility with VOC emissions in excess of 100 lbs/day. Coating parts operations will consume less than 50 pounds of VOC per day, so the facility is exempt.

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas) [Applicable]
Part 7, Sections 46 concerns coating of metal parts and products. Per 39-46 (h), Limco is exempt as the VOC emissions from surface coating and cleaning do not exceed 10 TPY.

OAC 252:100-41 (Hazardous Air Pollutants and Toxic Air Contaminants) [Applicable]
Part 3 addresses hazardous air contaminants. NESHAP, as found in 40 CFR Part 61, are adopted by reference as they exist on July 31, 2002, with the exception of Subparts B, H, I, K, Q, R, T, W and Appendices D and E, all of which address radionuclides. In addition, General Provisions as found in 40 CFR Part 63, Subpart A, and the Maximum Achievable Control Technology (MACT) standards as found in 40 CFR Part 63, Subparts F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, CCCC, GGGG, HHHH, NNNN, SSSS, TTTT, UUUU, VVVV, and XXXX are hereby adopted by reference as they exist on July 31, 2002. These standards apply to both existing and new sources of HAPs. These requirements are covered in the "Federal Regulations" section.

Part 5 is a **state-only** requirement governing toxic air contaminants. New sources (constructed after March 9, 1987) emitting any category "A" pollutant above de minimis levels must perform a BACT analysis, and if necessary, install BACT. All sources are required to demonstrate that emissions of any toxic air contaminant that exceed the de minimis level do not cause or contribute to a violation of the maximum acceptable ambient concentration (MAAC). There are two toxics that exceed their de minimis, MEK and Trichloroethylene. Trichloroethylene is a HAP and Category A toxic generated by the vapor degreaser, which is subject to a Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart T. As such, Trichloroethylene is exempt from this part per §41-43(a)(3). Screen3 modeling for MEK has a ground-level concentration of 1,259 $\mu g/m^3$ as compared to a MAAC of 59,000 $\mu g/m^3$. This facility is in compliance.

OAC 252:100-43 (Testing, Monitoring, and Recordkeeping) [Applicable]
This subchapter provides general requirements for testing, monitoring and recordkeeping and applies to any testing, monitoring or recordkeeping activity conducted at any stationary source. To determine compliance with emissions limitations or standards, the Air Quality Director may require the owner or operator of any source in the state of Oklahoma to install, maintain and operate monitoring equipment or to conduct tests, including stack test, of the air contaminant source. All required testing must be conducted by methods approved by the Air Quality Director and under the direction of qualified personnel. A notice-of-intent to test and a testing protocol shall be submitted to Air Quality at least 30 days prior to any EPA Reference Method stack tests. Emissions and other data required to demonstrate compliance with any federal or state emission limit or standard, or any requirement set forth in a valid permit shall be recorded, maintained, and submitted as required by this subchapter, an applicable rule, or permit requirement. Data from any required testing or monitoring not conducted in accordance with the provisions of this subchapter shall be considered invalid. Nothing shall preclude the use, including the excusive use, or any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

FEDERAL REGULATIONS

PSD, 40 CFR Part 52 [Not Applicable]
PSD does not apply. Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]
There are no sources or facilities at this site affected by any NSPS subpart.

NESHAP, 40 CFR Part 61 [Not Applicable]
There are no emissions of any of the regulated pollutants: arsenic, asbestos, benzene, beryllium, coke oven emissions, mercury, radionuclides, or vinyl chloride.

NESHAP, 40 CFR Part 63 [Subpart T Applicable]

Subpart T (Halogenated Solvent Cleaners). This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. The facility is an area source subject to Subpart T, and has complied with the initial notification requirement. A yearly report is required to be sent to the local DEQ office and an additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. The applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. The applicant is in compliance.

Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]

This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo.

Stratospheric Ozone Protection, 40 CFR Part 82 [Not Applicable]

This facility does not produce, consume, recycle, import, or export any controlled substances or controlled products as defined in this part, nor does this facility perform service on motor (fleet) vehicles that involves ozone-depleting substances. Therefore, as currently operated, this facility is not be subject to these requirements. To the extent that the facility has air-conditioning units that apply, the permit requires compliance with Part 82.

COMPLIANCE

Tier Classification and Public Review

This application has been classified as **Tier I** based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

Inspection

No inspection was performed on this facility because the facility did not remove or construct any new equipment. The modification requested was an increase in usage and a change in wording only.

Fee Paid

Permit modification fee of $500 was paid on February 20, 2004.

SUMMARY

There are no active Air Quality compliance or enforcement issues that would affect the issuance of this permit. Issuance of the modified operating permit is recommended.

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

Limco-Airepair **Permit No. 99-026-O (M-2)**
Aircraft Subassembly Manufacturing and Repair

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on February 20, 2004. The Evaluation Memorandum dated May 24, 2004, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein.

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit Limits	
		PPH	TPY
Dip Coat	Toluene	2.40	5.1
	Xylene	0.19	0.40
	805 Resin	0.20	0.43
Degreaser	Trichloroethylene	1.50	3.20
Wipe	MEK	3.20	6.80
Testing	Mineral Spirits	0.53	1.20
Wipe	IPA	0.82	1.80
Paint	Various	0.22	0.50

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD (1)	GPY
Toluene	5.4	1,400
Xylene	0.43	110
805 Resin	0.60	157
Trichloroethylene	2.00	520
MEK	7.70	2,000
Mineral Spirits	1.37	355
IPA	2.04	530
Paints, various	0.39	100

(1) These gallons/day are work-week averages.

2. Alternate products and production quantities can be varied under the following conditions.

   a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
   b. A change in either production or products is permitted provided there would be no increase in the quantity of the resulting emissions. Additionally, the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC 252:100-41.
   c. The facility shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.
   d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

   a. The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

   b. The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

   c. Since Limco has chosen Option 1 for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio not less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this subpart would be a better choice, Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

   d. Limco will properly train each person who will operate the degreaser before they are allowed to use the machine. The written syllabus used for training will be readily available to each trained operator.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

    a. Records sufficient to demonstrate that the weekly averages of the product usages do not exceed those shown in Specific Condition #1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
    b. Degreaser records required by Specific Condition #3.
    c. Material usages (monthly and 12-month rolling totals).

6. This permit supercedes all previous permits for this facility, which are now null and void.

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON STREET, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Issuance Date: _____ Permit Number: 99-026-O (M-2)

Limco-Airepair, Inc.,

having complied with the requirements of the law, is hereby granted permission to operate the facility to manufacture and repair aircraft parts at 5304 S. Lawton Avenue, Tulsa County, Oklahoma,

subject to the following conditions, attached:

[X] Standard Conditions dated October 31, 2003

[X] Specific Conditions

_____ Chief Engineer, Air Quality Division

Mr. Michael Lowther, Operations Manager
Limco-Airepair, Inc.
5304 S. Lawton Ave.
Tulsa, OK 74107

Re: Operating Permit No. **99-026-O (M-2)**
Limco-Airepair, Inc.

Dear Mr. Lowther:

Enclosed is the permit authorizing operation of the referenced facility. Please note that this permit is issued subject to standard and specific conditions, which are attached. These conditions must be carefully followed since they define the limits of the permit and will be confirmed by periodic inspections.

Also note that you are required to annually submit an emissions inventory for this facility. An emissions inventory must be completed on approved AQD forms and submitted (hardcopy or electronically) by March 1st of every year. Any questions concerning the form or submittal process should be referred to the Emissions Inventory staff at 405-702-4100.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 293-1600. Air Quality personnel are located in the DEQ Regional Office at Tulsa, 3105 East Skelly Drive, Suite 200, Tulsa, Oklahoma, 74105.

Sincerely,

Jennifer Tyler
AIR QUALITY DIVISION

enclosure

ATTACHMENT B

AIR EMISSIONS INVENTORY TRENDS

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100

Company Name: LIMCO AIREPAIR INC AND AERODUCT

3620 5304 S LAWTON AVE

Inventory Year	Pollutant	Amount (Tons)	CAS
2005			
	* Volatile Organics (non-HAP)	8.576	
	Methyl isobutyl ketone	0.042	108101
	Toluene	4.831	108883
	Trichloroethylene	2.66	79016
	Xylenes (mixed isomers)	0.02	1330207
2006			
	* Volatile Organics (non-HAP)	7.08	
	Methyl isobutyl ketone	0.008	108101
	Toluene	4.13	108883
	Trichloroethylene	2.86	79016
	Xylenes (mixed isomers)	0.108	1330207
2007			
	* Volatile Organics (non-HAP)	7.711	
	Methyl isobutyl ketone	0.03	108101
	Toluene	4.54	108883
	Trichloroethylene	3	79016
	Xylenes (mixed isomers)	0.07	1330207

Address: 5304 S LAWTON AVE
TULSA OK 74107

Responsible Official
Contact: MCDONALD, BOB
Phone: (918) 445-4300
Fax:

Status: Active
Class: MN
SIC: 3728
County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

Directions: Behind Pepsi Plant off I-44 west of the river

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	7.711	
Methyl isobutyl ketone	0.03	108101
Toluene	4.54	108883
Trichloroethylene	3	79016
Xylenes (mixed isomers)	0.07	1330207

POINTS

Seq.	Name	Status	UTMH	UTMV
1	Wipedown	Active	239.421	3982.281
2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	Dip Coating	Active	239.421	3982.281
5	Testing	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	5.10	0.001	Tons	4992	16	6	40188805	N
2	Petroleum and Solvent Evaporatio	7.20	0.001	Tons	4992	16	6	40188805	N
3	Petroleum and Solvent Evaporatio	0.60	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	4.90	0.001	Tons	4992	16	6	40100398	N
5	Petroleum and Solvent Evaporatio	1.00	0	Tons	4992	16	6	40188805	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	4.77	9.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
2	Trichloroethylene	3	3.2	Mass Balance	Vapor Recover	99.00%	* Uncontrolled	0.00%
2	* Volatile Organics (non-HAP)	2.2	3	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	* Volatile Organics (non-HAP)	0.091	0.56	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Xylenes (mixed isomers)	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Toluene	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Methyl isobutyl ketone	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	Toluene	4.51	5.1	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	* Volatile Organics (non-HAP)	0.06	5.36	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	* Volatile Organics (non-HAP)	0.59	2.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	Xylenes (mixed isomers)	0.04	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

Address: 5304 S LAWTON AVE
TULSA OK 74107

Responsible Official
Contact: MCDONALD, BOB
Phone: (918) 445-4300
Fax:

Status: Active
Class: MN
SIC: 3728

Directions: Behind Pepsi Plant off I-44 west of the river

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	7.08	
Methyl isobutyl ketone	0.008	108101
Toluene	4.13	108883
Trichloroethylene	2.86	79016
Xylenes (mixed isomers)	0.108	1330207

POINTS

Seq.	Name	Status	UTMH	UTMV
1	Wipedown	Active	239.421	3982.281
2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	Dip Coating	Active	239.421	3982.281
5	Testing	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	6.20	0.001	Tons	4992	16	6	40188805	N
2	Petroleum and Solvent Evaporatio	4.70	0.001	Tons	4992	16	6	40188805	N
3	Petroleum and Solvent Evaporatio	0.60	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	6.10	0.001	Tons	4992	16	6	40100398	N
5	Petroleum and Solvent Evaporatio	2.20	0	Tons	4992	16	6	40188805	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	4.9	9.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
2	Trichloroethylene	2.86	3.2	Mass Balance	Vapor Recover	99.00%	* Uncontrolled	0.00%
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	* Volatile Organics (non-HAP)	0.31	0.56	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Xylenes (mixed isomers)	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Toluene	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Methyl isobutyl ketone	0.008	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	Toluene	4.1	5.1	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	* Volatile Organics (non-HAP)	0	5.36	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	* Volatile Organics (non-HAP)	1.87	2.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	Xylenes (mixed isomers)	0.078	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

2005 | TEAM ID 3620 | **LIMCO AIREPAIR INC AND AERODUCT** | Wednesday, July 30, 2008

5304 S LAWTON AVE | Updated: 4/3/2008

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions:
Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: MCDONALD, BOB
Phone: (918) 445-4300
Fax:

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	8.576	
Methyl isobutyl ketone	0.042	108101
Toluene	4.831	108883
Trichloroethylene	2.66	79016
Xylenes (mixed isomers)	0.02	1330207

POINTS

Seq.	Name	Status	UTMH	UTMV
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2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	Dip Coating	Active	239.421	3982.281
5	Testing	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	8.90	0.001	Tons	4992	16	6	40188805	N
2	Petroleum and Solvent Evaporatio	4.30	0	Tons	4992	16	6	40188805	N
3	Petroleum and Solvent Evaporatio	0.60	0	Gallons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	5.90	0.001	Gallons	4992	16	6	40100398	N
5	Petroleum and Solvent Evaporatio	0.50	0	Tons	4992	16	6	40188805	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	7.76	9.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
2	Trichloroethylene	2.66	3.2	Mass Balance	Vapor Recover	99.00%	* Uncontrolled	0.00%
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	* Volatile Organics (non-HAP)	0.316	0.56	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Toluene	0.051	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Methyl isobutyl ketone	0.042	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	Toluene	4.78	5.1	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	* Volatile Organics (non-HAP)	0	5.36	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	* Volatile Organics (non-HAP)	0.5	2.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	Xylenes (mixed isomers)	0.02	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

ATTACHMENT C

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

* * * Section 1 - Chemical Product and Company Identification * * *

Product Trade Name TURCO 5668

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

* * * Section 2 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
872-50-4	N-Methyl-2-pyrrolidone	30-60
64742-52-5	Petroleum distillates, hydrotreated heavy naphthenic	10-30
141-43-5	Ethanolamine	10-30
Proprietary	Toluene sulfonamide mixture	1-10
1310-58-3	Potassium hydroxide	1-10

* * * Section 3 - Hazards Identification * * *

Emergency Overview:

DANGER! May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Long-term exposure can cause liver and kidney damage. Excessive exposure can cause dizziness and central nervous system depression.

Potential Health Effects:

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be severely irritating to the eyes, skin and respiratory tract. Prolonged or repeated contact may remove oils from the skin and may dry skin and cause irritation, redness and rash. High vapor concentrations may be irritating to the eyes and respiratory tract, and may result in central nervous system (CNS) effects such as headache, dizziness, nausea, drowsiness and, in severe exposures, loss of consciousness and death. Precautions should be taken to limit aerosolization or misting of this material, as repeated exposure to high concentrations of mineral oil mist may cause lipoid pneumonia. Mild to severe lung injury may occur if this material is drawn into the lungs (aspirated) during swallowing, or during vomiting after swallowing. Symptoms of injury may include increased breathing and heart rate, coughing and related signs of respiratory distress. Animal studies on a component of this material have produced liver and kidney changes.

* * * Section 4 - First Aid Measures * * *

Eye Contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Skin Contact:

For skin contact flush with large amounts of water while removing contaminated clothing. Get Medical Attention. Discard any shoes or clothing items that cannot be decontaminated.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

* * * Section 5 - Fire Fighting Measures * * *

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

Flash Point:	> 200 F	**Method Used:**	PMCC	**Flammability Classification:**	
Upper Flammable Limit (UFL):	NE	**Lower Flammable Limit (LFL):**	NE		

Fire & Explosion Hazards:

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Use water spray to cool containers exposed to fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

* * * Section 6 - Accidental Release Measures * * *

Clean-Up Procedures:

Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue. Dispose of collected material according to regulation.

Spill or Leak

Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water. Keep concentrate and wash water from entering sewers or waterways.

* * * Section 7 - Handling and Storage * * *

Handling Procedures:

Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat, sparks and flame. Use explosion proof equipment. Empty container may contain hazardous residues.

Storage Procedures:

Store in a cool, dry place. Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Ethanolamine (141-43-5)

ACGIH: 3 ppm TWA
6 ppm STEL
OSHA: 3 ppm TWA; 6 mg/m3 TWA
6 ppm STEL; 15 mg/m3 STEL
NIOSH: 3 ppm TWA; 8 mg/m3 TWA
6 ppm STEL; 15 mg/m3 STEL

Potassium hydroxide (1310-58-3)

ACGIH: C 2 mg/m3
NIOSH: C 2 mg/m3

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must

Material Safety Data Sheet

Material Name: TURCO 5668 **ID:** 238799

perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Liquid	**Appearance:**	Light brown
Odor:	Amine	**Vapor Pressure:**	0.35 MM HG @ 20 F
Vapor Density:	> 1.0	**Boiling Point:**	> 200 F
Melting Point:	NA	**Specific Gravity:**	0.99
pH:	12.0 (1% solution)	**Viscosity:**	
VOC:	70 - 75 %	**Solubility Water:**	Soluble
Percent Volatile:	NIL VOL %	**Percent Solids:**	>60

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability:

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility:

Avoid contact with strong acids and oxidizers. Avoid flames, sparks, and ignition sources. Contains organic amine compounds. Nitrite based materials should not be added due to possible nitrosoamine.

Decomposition Products:

Oxides of carbon, nitrogen compounds.

Hazardous Polymerization:

Hazardous polymerization is not known to occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

N-Methyl-2-pyrrolidone (872-50-4)
Oral LD50 Rat : 3914 mg/kg
Oral LD50 Mouse : 5130 mg/kg
Dermal LD50 Rabbit : 8 gm/kg

Ethanolamine (141-43-5)
Oral LD50 Rat : 1720 mg/kg
Oral LD50 Mouse : 700 mg/kg
Dermal LD50 Rabbit : 1 mL/kg

Potassium hydroxide (1310-58-3)
Oral LD50 Rat : 273 mg/kg

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

Chronic Toxicity
No information available for the product.

Epidemiology:
No information available for the product.

Neurotoxicity:
No information available for the product.

Mutagenicity:
No information available for the product.

Teratogenicity:
No information available for the product.

* * * Section 12 - Ecological Information * * *

Ecotoxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

N-Methyl-2-pyrrolidone (872-50-4)

Test & Species		Conditions
LC50 (96 hr) rainbow trout	5104 mg/L.	
LC50 (96 hr) fathead minnow	4518.27 mg/L.	
LC50 (96 hr) bluegill	5656 mg/L.	
LC50 (96 hr) water flea	3135 mg/L.	

Ethanolamine (141-43-5)

Test & Species		Conditions
LC50 (96 hr) goldfish	170.0 mg/L.	
EC50 (30 min) Photobacterium phosphoreum	13.7 mg/L Microtox test.	

Potassium hydroxide (1310-58-3)

Test & Species		Conditions
LC50 (24 hr) mosquito fish	80.0 mg/L	

Environmental Fate:
No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Numbers & Descriptions:

A: General Product Information

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

* * * Section 15 - Regulatory Information * * *

Material Safety Data Sheet

Material Name: TURCO 5668 **ID:** 238799

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

N-Methyl-2-pyrrolidone (872-50-4)

SARA 313 form R reporting required for 1.0% de minimis concentration

Potassium hydroxide (1310-58-3)

CERCLA final RQ = 1000 pounds (454 kg)

SARA 311/312: **Acute:** Y **Chronic:** Y **Fire:** N **Pressure:** N **Reactive:** N

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
N-Methyl-2-pyrrolidone	872-50-4	No	Yes	Yes	Yes	No	Yes
Ethanolamine	141-43-5	Yes	Yes	Yes	Yes	Yes	Yes
Potassium hydroxide	1310-58-3	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
N-Methyl-2-pyrrolidone	872-50-4	Yes	Yes	Yes
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	Yes	Yes	Yes
Ethanolamine	141-43-5	Yes	Yes	Yes
Potassium hydroxide	1310-58-3	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethanolamine	141-43-5	1%; English Item 1096; French Item 1170
Potassium hydroxide	1310-58-3	1%; English Item 1335; French Item 996

* * * Section 16 - Other Information * * *

NFPA Ratings: **Health:** 3 **Fire:** 0 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS Ratings: **Health:** 3 **Fire:** 0 **Reactivity:** 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Regulatory Affairs and Product Acceptance
Contact Phone: (248) 583-9300

This is the end of MSDS # 238799

URESCO

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ARDROX

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name (as labeled) Tracer Tech B499-C

Chemical Names, Common Names Developer

Manufacturer's Name Ardrox Inc.

Address 16961 Knott Avenue, La Mirada, CA 90638

Emergency Phone 1-800-424-9300 Name of Preparer Abayomi I. Owei

Business Phone 714 739-2821 Date Prepared June 9, 1986

II. HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS NUMBERS	APPROXIMATE PERCENT	EXPOSURE LIMITS IN AIR ACGIH (TLV)	OSHA (PEL)	OTHER
1,1,1, Trichloroethane	71-55-6	Over 80	350 ppm	350 ppm	
Amorphous Silica % Mass	7631869				20 mppcf

III. PHYSICAL PROPERTIES

Vapor Density (Air=1) 4.55

Specific Gravity 1.32

Solubility in Water 0.78/100 gm.

Vapor Pressure, mmHg at 20°C 100

Evaporation Rate (butyl acetate =1) Over 5

Melting Point or Range, °F. N/A

Boiling Point or Range, °F. 165°F. Approx.

Appearance and Odor White powder suspended in colorless liquid: Pleasant ether like or chlorinated solvent odor.

HOW TO DETECT THIS SUBSTANCE (Warning properties of substance as a gas, vapor, dust, or mist)

Appearance, odor, solubility test and the utilization of other physical properties.

Hazardous decomposition products (including combustion products):

Hydrogen chloride, phosgene and other toxic substances may be produce.

Hazardous Polymerization: ____May occur x Will not occur

Conditions to Avoid:

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures):
Spills should be contained immediately. Remove spills by soaking it up with absorbent materials, placed in closed containers, labeled, store and disposed properly. Wear protective clothing and self-contained breathing apparatus when performing this job.

Preparing wastes for disposal (container types, neutralization, etc.):
This product is recyclable normally. If conditions prevent recycling, dispose of it in accordance with all federal, state and local health and pollution regulations.

Note: Dispose of all wastes in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls Use adequate ventilation (local or general) to keep down mist or vapor concentration below applicable standards.

Respiratory protection NIOSH approved organic vapor respirator.

Eye Protection (Type) Safety glasses or face shield.

Gloves (specify material) Neoprene or chemical resistant gloves.

Other Clothing and Equipment Aprons and overalls if necessary.

Work practices, hygienic practices Wash hands before touching any food for consumption. Avoid prolonged or repeated breathing of vapors. Avoid repeated exposure or contact with skin.

Other handling and storage requirements Store away from heat, open flames and oxidizing agents. Store in a well ventilated area.

Protective measures during maintenance of contaminated equipment Exercise safety precautions for contaminated clothing and material. Treat empty containers as if they were full and don't fill them with anything else.

IX. LABELING

Labeling (precautionary statements) Please read and understand warning label(s) before using product or opening product containers.

D.O.T. Label Compound Cleaning Liquid Corrosive

IV. FIRE AND EXPLOSION

Flash Point, °F. (give method) None at conventional closed tester at ordinary room temperatures.

Autoignation Temperature, °F. 998°F.

Flammable Limits in air, volume %: Lower 7.5 Upper 12.5

Fire Extinguishing Materials:

x Water Spray — x Carbon Dioxide — Other:

x Foam — x Dry Chemical

Special Firefighting Procedures: Use water spray to keep fire - exposed containers cool. Water spray may be utilized to flush spills away from exposures. Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Very high temperatures may pose fire and explosion hazards even though it is classified as non-flammable under conventional closed tester at ordinary room temperatures.

V. HEALTH HAZARD INFORMATION

SYMPTOMS or OVEREXPOSURE for each potential route of exposure.

Inhaled: Vapor may cause headache, dizziness and stupor, nausea and vomiting. Very severe over-exposure may cause muscular incoordination.

Contact with Skin or Eyes: Skin: moderate irritation with burning sensation. Repeated or prolonged exposure may cause dermatitis.

Eyes: moderate irritation, causing pain, lacrimation and general inflammation. No corneal injury.

Absorbed through Skin: It is not readily absorbed through the skin, however exercise safety measure when handling this product.

Swallowed: May irritate gastrointestinal tract. Chemical pneumonia if vomiting results in aspiration into lungs.

HEALTH EFFECTS OR RISKS FROM EXPOSURE. Explain in lay terms. Attach extra page if more space is needed.

Acute: Irritation to skin, eyes and respiratory system.

Chronic: Dermatitis.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Seek medical attention immediately.

Skin Contact: Wash exposed skin with soap and water for at least 15 minutes. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. Seek medical help if necessary.

Inhaled: Remove patient to fresh air. If breathing has stopped, give artificial respiration. Call a physician immediately.

Swallowed: Do not induce vomiting, but give 3-4 glasses of milk to dilute poison. Never give anything by mouth to an unconscious person. Obtain medical help immediately.

SUSPECTED CANCER AGENT?

__x__ NO: This product's ingredients are not found in the lists below.
YES: ____Federal OSHA ____NTP ____IARC ____Cal/OSHA (See note)

NOTE: California employers using Cal/OSHA-regulated carcinogens must register with Cal/OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Skin and eye diseases could be aggravated by repeated exposure.

RECOMMENDATIONS TO PHYSICIAN

There is no specific antidote. Treatment should be directed at clinical condition and symptoms control. Over exposure can produce elevated carboxyhemoglobin levels.

VI. REACTIVITY DATA

Stability: __x__ Stable ____Unstable

Conditions to avoid: Temperature extremes especially excessive heat.

Incompatibility (materials to avoid) Avoid contact with oxidizing agents, alkali metals, open flames and electric arcs.

MISC, Chem

Toluene
Material Safety Data Sheet

CITGO Petroleum Corporation
1701 Golf Road, Suite 1-1101
Rolling Meadows, IL 60008-4295

MSDS No. 07307
Revision Date 01/19/2004

IMPORTANT: Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

Hazard Rankings

	HMIS	NFPA
Health Hazard	* 2	2
Fire Hazard	3	3
Reactivity	0	0

* = Chronic Health Hazard

Emergency Overview

Physical State Liquid
Color Clear
Odor Aromatic, characteristic solvent odor

WARNING:
Flammable liquid; vapor may cause flash fire.
Harmful or fatal if swallowed - Can enter lungs and cause damage.
Mist or vapor can irritate the respiratory tract.
Liquid contact can cause eye or skin irritation.
Overexposure can cause central nervous system (CNS) depression and/or other target organ effects.
Breathing high concentrations can cause irregular heartbeats which may be fatal.

Protective Equipment

Minimum Recommended
See Section 8 for Details

SECTION 1. PRODUCT IDENTIFICATION

Trade Name	Toluene	**Technical Contact**	(800) 967-7601 (8am - 4pm CT M-F)
Product Number	07307	**Medical Emergency**	(918) 495-4700
CAS Number	108-88-3	**CHEMTREC Emergency (United States Only)**	(800) 424-9300

Product Family Petroleum hydrocarbon solvent

Synonyms Toluol; C7 Alkylbenzene; C7 Aromatic Hydrocarbon Solvent; High-purity Toluene; Methylbenzene; Reagent-grade Toluene (meets ASTM D-841 "Nitration Grade" Specifications); TDI-grade Toluene; Former CITGO Product Code: 2170

SECTION 2. COMPOSITION

Component Name(s)	CAS Registry No.	Concentration (%)
Toluene	108-88-3	> 99

Toluene

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA Health Hazard Classification				OSHA Physical Hazard Classification					
Irritant	X	Sensitizer		Combustible		Explosive		Pyrophoric	
Toxic		Highly Toxic		Flammable	X	Oxidizer		Water-reactive	
Corrosive		Carcinogenic		Compressed Gas		Organic Peroxide		Unstable	

SECTION 4. FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Inhalation

Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately.

Eye Contact

Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.

Skin Contact

Remove contaminated shoes and clothing. Flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use ointments. If skin surface is not damaged, clean affected area thoroughly with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists.

Ingestion

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.

Notes to Physician

INHALATION: Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.

This material (or a component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administion of sympathomimetic drugs should be avoided.

INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification	NFPA Class-IB flammable liquid.
Flash Point	Closed cup: 4°C (40°F). (Tagliabue.)
Lower Flammable Limit	AP 1 % **Upper Flammable Limit** AP 7 %
Autoignition Temperature	536°C (997°F)
Hazardous Combustion Products	Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, aldehydes and other products of incomplete combustion.
Special Properties	Flammable Liquid! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.
Extinguishing Media	SMALL FIRE: Use dry chemicals, carbon dioxide, foam, water fog, or inert gas (nitrogen). LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area.
Protection of Fire Fighters	Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities if liquid enter sewers or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Flammable Liquid! Release causes an immediate fire or explosion hazard. Evacuate all non-essential personnel from immediate area and establish a "regulated zone" with site control and security. A vapor-suppressing foam may be used to reduce vapors. Eliminate all ignition sources. All equipment used when handling this material must be grounded. Stop the leak if it can done without risk. Do not touch or walk through spilled material. Remove spillage immediately from hard, smooth walking areas. Prevent spilled material from entering waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

For large spills, secure the area and control access. Prevent spilled material from entering sewers, storm drains, other drainage systems, and natural waterways. Dike far ahead of a liquid spill to ensure complete collection. Water mist or spray may be used to reduce or disperse vapors; but, it may not prevent ignition in closed spaces. This material will float on

water and its run-off may create an explosion or fire hazard. Verify that responders are properly HAZWOPER-trained and wearing appropriate respiratory equipment and fire-resistant protective clothing during cleanup operations. In an urban area, cleanup spill as soon as possible; in natural environments, cleanup on advice from specialists. Pick up free liquid for recycle and/or disposal if it can be accomplished safely with explosion-proof equipment. Collect any excess material with absorbant pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

SECTION 7. HANDLING AND STORAGE

Handling

A spill or leak can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Do not contact with oxidizable materials. Do not breathe vapor. Use only with adequate ventilation and personal protection. Never siphon by mouth. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide ventilation to maintain exposure potential below applicable exposure limits. Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.

Storage

Store and transport in accordance with all applicable laws. Keep containers tightly closed and store in a cool, dry, well-ventilated place, plainly labeled, and out of closed vehicles. Keep away from all ignition sources. Ground all equipment containing this material. Containers should be able to withstand pressures expected from warming and cooling in storage. This flammable liquid should be stored in a separate safety cabinet or room. A refrigerated room is preferable for materials with a flash point temperature lower than 70°F (21°C). All electrical equipment in areas where this material is stored or handled should be installed in accordance with applicable regulatory requirements and the National Electrical Code.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. An emergency eye wash station and safety shower should be located near the work-station.

Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.

Toluene

Eye Protection	Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. Suitable eye wash water should be readily available.
Hand Protection	Avoid skin contact. Use gloves (e.g., disposable PVC, neoprene, nitrile, vinyl, or PVC/NBR). Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.
Body Protection	Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discarded contaminated leather goods.
Respiratory Protection	For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA). For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
General Comments	Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

Occupational Exposure Guidelines

Substance	**Applicable Workplace Exposure Levels**
Toluene	**ACGIH (United States). Skin** TWA: 50 ppm 8 hour(s). **OSHA (United States).** TWA: 200 ppm 8 hour(s). CEIL: 300 ppm PEAK: 500 ppm

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State	Liquid.	**Color**	Clear.	**Odor**	Aromatic, characteristic solvent odor.
Specific Gravity	0.872 (Water = 1)	**pH**	Not Applicable.	**Vapor Density**	AP 3 (Air = 1)
Boiling Range	AP 111° C (AP 231° F)			**Melting/Freezing Point**	AP -95°C (AP -139°F)
Vapor Pressure	3.2 kPa (24 mmHg) (at 20°C)			**Volatility**	872 g/l VOC (W/V)
Solubility in Water	Very slightly soluble in cold water. (<0.1 % w/w)			**Viscosity (cSt @ 40°C)**	<3
Additional Properties					

Toluene

Paraffin, Isoparaffin and Cycloparaffin Hydrocarbons Content = <1 Wt.% (ASTM D-1319);
Aromatic Hydrocarbon Content = >99 Wt. % (ASTM D-1319);
Average Density at 60°F = 7.26 lbs./gal. (Calculated via ASTM D-287);
Aniline Cloud Point Temperature = 48°F (8.9°C) (ASTM D-611);
Kauri-Butanol (KB) Value = 105 (ASTM D-1133);
Dry Point Temperature = 231°F (111°C) (ASTM D-86, D-850 or D-1078);
Evaporation Rate = 1.9 (n-Butyl acetate = 1.0);
Heat Value = 18,314 Btu per pound;
Flash Point = 40° F (4° C) (TCC);
Odor Threshold = 2 to 5 ppm in air

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable.	**Hazardous Polymerization**	Not expected to occur.
Conditions to Avoid	Keep away from heat, sparks and flame.		
Materials Incompatibility	Strong acids, alkalies, and oxidizers such as liquid chlorine, other halogens, hydrogen peroxide and oxygen.		
Hazardous Decomposition Products	No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS.		

SECTION 11. TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Toluene:
Effects from Acute Exposure:
Deliberate inhalation of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system and can cause CNS depression, cardiac arrhythmias and death. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects.

Effects from Repeated or Prolonged Exposure:
Studies of workers indicate long-term exposure may be related to impaired color vision and hearing. Some studies of workers suggest long-term exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest long-term exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals were largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Environmental Fate This product is not expected to bioaccumulate through food chains in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Maximize material recovery for reuse or recycling. If discarded, Toluene is regulated by US EPA as a listed hazardous waste (U220). Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility (D001) and/or its toxic (D018) characteristics. Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specfic disposal issues.

SECTION 14. TRANSPORT INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status A U.S. Department of Transportation (DOT) regulated material.

Proper Shipping Name RQ, Toluene, 3, UN1294, PG II

Hazard Class 3

Packing Group(s) II

UN/NA Number UN1294

Reportable Quantity RQ 1000 lbs. [Based upon maximum Toluene concentration of 100% and an RQ of 1000 lbs.]

Placard(s)

Emergency Response Guide No. 130

HAZMAT STCC No. 49 093 05

MARPOL III Status Not a DOT "Marine Pollutant" per 49 CFR 171.8.

SECTION 15. REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 Emergency Planning and Notification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.
SARA 311/312 Hazard Identification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard
SARA 313 Toxic Chemical Notification and Release Reporting	This product contains the following components in concentrations above de minimis levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: Toluene [CAS No.: 108-88-3] Concentration: >99%
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Toluene [CAS No.: 108-88-3] RQ = 1000 lbs. (453.6 kg) Concentration: >99% Benzene [CAS No.: 71-43-2] RQ = 10 lbs. (4.536 kg) Concentration: <0.1%
Clean Water Act (CWA)	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.
California Proposition 65	This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Toluene: >99% Benzene: <0.1%
New Jersey Right-to-Know Label	For New Jersey R-T-K labeling requirements, refer to components listed in Section 2.
Additional Regulatory Remarks	Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains Toluene which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Toluene! Harmful or fatal if swallowed! Call Physician Immediately. Vapor Harmful! KEEP OUT OF REACH OF CHILDREN!**

SECTION 16. OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number	5.0
Revision Date	01/19/2004
Print Date	Printed on 01/19/2004.

ABBREVIATIONS

Toluene

AP: Approximately EC: Equal >: Greater Than <: Less Than NA: Not Applicable ND: No Data NE: Not Established
ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
NIOSH: National Institute of Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
NPCA: National Paint and Coating Manufacturers Association
HMIS: Hazardous Materials Information System
NFPA: National Fire Protection Association
EPA: US Environmental Protection Agency

DISCLAIMER OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS. SOME INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

***** END OF MSDS *****

MATERIAL SAFETY DATA SHEET

NPCA 1 SA

FOR COATINGS, RESINS AND RELATED MATERIALS

Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20

DATE OF PREP 9-30-97

Section I

MANUFACTURER'S NAME Trail Chemical Corp.

STREET ADDRESS 9904 Gidley Street CITY, STATE AND ZIP CODE El Monte, Ca. 91731

EMERGENCY TELEPHONE NO (818) 442-4140

INFORMATION TELEPHONE NO Same

PRODUCT CLASS EPOXY MANUFACTURERS CODE IDENTIFICATION X-75351 -E

HAZARD CODE HMIS H F R P
2 3 0 C

TRADE NAME Clear Gloss Epoxy Baking Enamel

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mm Hg@20°C
Aliphatic Petroleum Solvent CAS# 64742-95-6	46.0	Not established		1.0	3.0
* Methyl n-Propyl Ketone CAS# 107-87-9	19.6	200	705	1.6	28.0
* n-Butyl Acetate CAS# 123-86-4	11.7	150	713	1.7	7.8
Aliphatic Hydrocarbon (Stoddard) CAS# 8052-41-3	5.1	100	525	1.0	2.0
1,2,4- Trimethylbenzene CAS# 95-63-6	1.9	Not established			
1,3,5- Trimethylbenzene CAS# 108-67-8	.9	Not established			

* This chemical is subject to the reporting requirements of Section 313 of SARA TITLE III.

Section III — PHYSICAL DATA

BOILING RANGE 100 - 315°F VAPOR DENSITY [X] HEAVIER [ ] LIGHTER THAN AIR

EVAPORATION RATE [ ] FASTER [X] SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 87.8 WEIGHT PER GALLON 7.30

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION Flammable Liquid FLASH POINT TCC 62°F LEL

EXTINGUISHING MEDIA Foam, CO_2 Dry Chemical, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS Flammable vapors may cuase explosive mixtures with air. Vapors are heavier than air and may travel along ground and be ignited by pilot lights, sparks, heaters, smoking, electric motors and other ignition sources.

SPECIAL FIRE FIGHTING PROCEDURES Self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode. Water streams will only spread burning material. Use water fog to cool containers exposed to fire to reduce internal pressure.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE
Eyes: Can cause irritation, redness tearing and blurred vision.
Skin: Can cause irritation, defatting, dermatitis.
Breathing: Can cause irritation, dizziness, fatigue, nausea, headache, possible unconsciousness.

EMERGENCY AND FIRST AID PROCEDURES
Eyes: FLush with large amounts of water, lifting upper & lower lids, get medical attention.
Skin: Wash exposed area with soap and water. Remove and launder contaminated clothing.
Swallowed: Do not induce vomiting. Keep warm and quiet and get medical attention.
Breathed: Remove to fresh air. Administer oxygen if breathing is difficult, call physician.

Section VI — REACTIVITY DATA

STABILITY [ ] UNSTABLE [X] STABLE CONDITIONS TO AVOID

INCOMPATABILITY (Materials to Avoid) Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide

HAZARDOUS POLYMERIZATION [ ] MAY OCCUR [X] WILL NOT OCCUR

CONDITIONS TO AVOID Heat, sparks, open flame and fire.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Wipe up and safely discard absorbants. In the event of a large spill, dike the area and pump material to a waste tank.

WASTE DISPOSAL METHOD In accordance with Federal, State and local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION NIOSH/MESA approved for organic vapors. If airborne concentration exceeds TLV, use self-contained breathing apparatus or respirator.

VENTILATION Sufficient to maintain airborne concentration less than TLV.

PROTECTIVE GLOVES Buna

EYE PROTECTION Chemical safety goggles or face shield.

OTHER PROTECTIVE EQUIPMENT

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Use with adequate ventilation. Avoid prolonged breathing of vapors. Avoid prolonged or repeated skin contact.

DOL STORAGE CATEGORY

OTHER PRECAUTIONS Do not use near sparks, open flame, electric equipment, smoking, welding operations or other sources of ignition. Emptied containers may contain residual material suffieient to pose a fire or explosion hazard.

ATTACHMENT D

(D)

VAPOR DEGREASER

HOIST SPEED 16 FPM

HEAT SET POINT 214°F

ACTUAL TEMP 181°F

ATTACHMENT E

VAPOR DEGREASER FLUID USAGE LOG

Please write down amount of trichlorethylene added as well as date and time.

Date	Time	Gallons Added	
8/23/06	7:00 AM	110 gallons	OUT
8/23/06	9:00 AM	110 gallons	IN
9/30/06	800 AM	110 gallons	OUT
9/30/06	1030 AM	110 gallons	IN
11/28/06	300 PM	110 gallons	IN
11/28/06	300 PM	110	OUT
12/22/06	130 PM	110	OUT
12/22/06	130 PM	[redacted]	IN
[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	
1-11-07	315 PM	55 gal	OUT
1-11-07	435 PM	70 gal	IN
2-7-07	800 AM	55 gal	OUT
2-7-07	900 AM	55 gal	IN
3/21/07	400 PM	70 gal	IN
3/21/07	530 PM	50 gal	OUT
5/31/07	430 PM	56 gal	OUT
5/31/07	530 PM	75 gal	IN
7/2/07	700 AM	90 gal	OUT
7/2/07	900 AM	40 gal	IN
7/31/07	500 PM	110	OUT
7/31/07	700 PM	110	IN
8/30/07	100 PM	110	OUT
8/30/07	600 PM	110	IN
10/20/07	700 AM	110	OUT
10/23/07	100 PM	110	IN
11/5/07	1000 AM	110	OUT
11/5/07	11 AM	110	IN
12/20/07	11 AM	110	OUT
12/20/07	100 PM	110	IN
1/23/08	100 PM	110	OUT
1/24/08	900 AM	110	IN
2/22/08	330 PM	110	OUT
2/23/08	800 AM	110	IN
3/31/08	700 AM	110	OUT
3/31/08	833 AM	110	IN
4/14/08	700 AM	110	OUT
4/14/08	800 AM	110	IN

VAPOR DEGREASER FLUID

USAGE LOG

Please write down the amount of trichlorethylene added s well as date and time

Date		Time			Gallons Added
5 12 08	XXX	1230	XXX	OUT	75
5 12 08	XXX	130	XXX	IN	75
6 9 08	XXX	630	XXX	OUT	75
6 9 08	XXX	830	XXX	IN	75
6 12 08	XXX	530	XXX	OUT	110
6 17 08	XXX	700	XXX	IN	110
7 12 08	XXX	645	XXX	OUT	110
7 12 08	XXX	750	XXX	IN	110
8 16 08	XXX	700	XXX	OUT	75
8 16 08	XXX	830	XXX	IN	75
9 13 08	XXX	700	XXX	OUT	75
9 13 08	XXX	900	XXX	IN	75
10 10 08	XXX	515	XXX	OUT	110
10 10 08	XXX	700	XXX	IN	110
11 14 08	XXX	330 PM	XXX	OUT	110
11 15 08	XXX	700 AM	XXX	IN	110
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	XXX		XXX		

Air Quality Division – Enforcement Section
Enforcement Case Timeline

TEAM Enforcement ID 4685 **Date Assigned** 11/20/08

Company LIMCO AIRREPAIR **Inspector** HELEN KING

Facility 5304 S. LAWTON AV **SIC Code** 3728
TULSA, TULSA COUNTY

TEAM Facility ID 3620

County TULSA

Type of Discovery	(Y/N)	Date
Inspection	Y	11/18/08
Complaint		
Permit Application		
File Review		
Required Report		
Self-Disclosure		
Referral from EI		
Referral from Permits		
Referral from TRSP		
Referral from EPA		
Other		

More information needed? (Yes) No

Date additional info received 02/24/09

If yes, Day Zero equals Discovery date plus 90 days
OR date info is received, whichever is earlier

Day Zero 2/16/09

If no, Day Zero equals Discovery date plus 45 days (30 days for disclosure)

Day Zero _____

NOV Target _____

NOV Issued _____

Potential violations		Description
High Priority Violations	(Y/N)	
General Criteria 1		
General Criteria 2		
General Criteria 3		
General Criteria 4		
General Criteria 5		
General Criteria 6		
General Criteria 7		
General Criteria 8		
General Criteria 9		
General Criteria 10		
Matrix Criteria 1		
Matrix Criteria 2		
Matrix Criteria 3		
Matrix Criteria 4		
Matrix Criteria 5		
Non HPV Violations		
NSPS (40 CFR Part 60)		
NESHAPs (40 CFR Part 61)		
MACT (40 CFR Part 63)	Y	SUBPART T – RECORDKEEPING – NON SUBMITTAL REPORT
OAC 252:100 – 7	Y	NO NOTIFICATION OR PERMIT MOD. FOR DEGREASER
Permit conditions		

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM: January 20, 2004

TO: Inspection Files

THROUGH: Rhonda Jeffries, Environmental Program Manager

FROM: Terry Joyner, Environmental Program Specialist

SUBJECT: Air Quality Complaint Inspection
Limco Airepair, Inc.
Tulsa, Oklahoma
FCE No. 01293
AIRS ID 143-00155

On December 30, 2003, an annual compliance inspection was conducted at the above referenced facility from 3:00 PM to 4:15 PM. Present for the inspection was Terry Joyner, Environmental Program Specialist with the Department of Environmental Quality, Air Quality Division (AQD). The facility was represented by Michael Lowther, Operations Manager. This facility was inspected to determine compliance with the state air quality regulations and its State of Oklahoma Evaluation of Permit to Operate No. 99-026-O (M-1)(attached).

FACILITY DESCRIPTION
The facility manufactures different sizes of heat exchangers, repairs various sizes of heat exchangers, and repairs variety of aircraft air ducts.

FACILITY INSPECTION
I arrived at the facility at approximately 3:00 PM. I met Mr. Lowther in the lobby area where proper credentials were presented. Mr. Lowther escorted me to his office where I explained the purpose of the inspection. I informed Mr. Lowther that I would be requesting various operational records and would need to take a physical tour of the facility. I requested the following operation records for 2003: weekly averages of product usage, degreaser records, and material usage. I informed Mr. Lowther that the records were due January 6, 2004. When then proceeded to the physical inspection. Mr. Lowther escorted me to the OEM area. In this are the facility manufactures heat exchangers. There were various metal presses, welding, and cutting machines in the area. Mr. Lowther then escorted me to the Paintbooth. The booth did not have a pressure drop gauge to measure the airflow across the filters. Mr. Lowther informed me that the filters were changed approximately once per month. It also appeared that the facility uses conventional spray guns. We then continued to the vapor degreaser. The chemical in the vapor degreaser is Trichloroethylene but on the operating permit it indicates that chemical in the degreaser is perchloroethylene. Mr. Lowther informed me that there was an error in the permit and he would request that it be changed. We then continued on to the Clean Line area. In this area

parts are dipped in various solutions for cleaning purposes. This area included a Chromatic Acid tank. The tank is heated to 90 degrees. I requested a MSDS for the Chromatic Acid. We then continued back to Mr. Lowther's office where I reconfirmed the date the records were due. I left the facility at approximately 4:15 PM.

FACILITY EMISSIONS

Limco Airepair Inc. reported the following emissions for 2002:

Pollutant	TPY
Isopropanol	.59
MEK	7.41
MIK	.02
MNK	.01
Mineral Spirits	1.05
Toluene	3.82
Trichloroethylene	1.28
Xylene	.21

The emission inventory is attached.

REGULATIONS

NESHAP, 40 CFR Part 63

Subpart T (Halogenated Solvent Cleaners) This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. Applicant is subject to Subpart T, has complied with the initial notification procedure, and has done all required reporting. Applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. Applicant appears to be in compliance.

OAC 252:100-1 (General Provisions)

Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments)

Primary Standards are in Appendix E and Secondary Standards are in Appendix F of the Air Pollution Control Rules. At this time, all of Oklahoma is in attainment of these standards.

OAC 252:100-5 (Registration, Emission Inventory and Annual Fees)

This subchapter requires potential sources of air contaminants to register with the Air Quality Division. The facility has submitted a 2002 emission inventory and it is attached.

OAC 252:100-7 (Permits for Minor Facilities)

This facility has a minor source permit since total emissions of each criteria pollutant do not exceed 100 TPY and HAP emissions do not exceed the 10/25 TPY thresholds. As

such, modeling, BACT, and public review are not necessary. The facility appears to be non-compliant with their operating permit.

OAC 252:100-9 (Excess Emission Reporting Requirements)
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as practical during normal office hours and no later than 4:30 pm the next working day following the malfunction or release. Further written notice containing specific details of the incident shall be submitted within ten (10) business days. The facility did not report any excess emissions.

OAC 252:100-13 (Open Burning)
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this Subchapter. There was no open burning seen during the inspection.

OAC 252:100-19 (Particulate Matter)
Section 19-4 limits particulate emissions from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4-1 lists natural gas TPM emissions to be 7.6 lb/million scf or about 0.0076 lb/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates)
No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. There was no opacity seen during the inspection.

OAC 252:100-29 (Fugitive Dust)
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. There was no fugitive dust seen during the inspection.

OAC 252:100 –31 (Sulfur Compounds)
Because the driers burn commercial grade natural gas exclusively they are in compliance with the requirements of this Subchapter.

OAC 252:100-39 (Volatile Organic Compounds in Nonattainment Areas)
Part 7, Section 39-46 concerns coating of metal parts and products. Limco is exempt as the VOC emissions from surface coating and cleaning will not exceed 10 TPY.

SPECIFIC CONDITIONS
Permit No. 99-026-O(M-1)

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit limits	
		TPY Limit	TPY Reported
Dip Coat	Toluene	5.0	*6.24
	Xylene	0.36	.35
Degreaser	Perc	3.0	**5.04
Wipe	MEK	7.50	5.10
Testing	MinSprts	2.50	1.01
Wipe	IPA	2.00	1.88
Paint (1)	Various	0.56	.14
TOTAL VOC		20.9	19.56
TOTAL HAPS		8.36	*16.61

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD(1) Limit	GPD Reported	GPY Limit	GPY Reported
Toluene	5.1	4.49	1320	*1,727
805 Resin	0.60	.20	157	55
Perc	0.20	**1.22	520	**833
MEK	7.70	5.06	2000	1,587
MinSprts	1.15	1.22	300	327.50
IPA	2.00	1.84	520	*585
Paints, various	0.31	*.45	80	*.86

(1) These GPD are work weekly averages.

*Exceedance of limitation

** The facility uses Trichloroethylene (Trich) instead of Perc.

The above emissions and material usage are reported in 12 month rolling totals. The facility exceeded the following limitations: TPY of Toluene, TPY of Haps, GPY of Toluene, GPY of IPA, GPD of Paint, GPY of Paint. The facility uses Trich instead of Perc for their degreaser. The levels of Trich emissions exceed the Perc limitation as well as the GPD and GPY.

2. Alternate products and production quantities can be varied under the following conditions.

a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
b. A change in either production or products is permitted provided there would be no increase in the quantity or a decrease in the quality of the resulting emissions. Additionally the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC252:100-41.
c. LA shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.
d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

The facility has submitted records that indicate that the facility has increased usages and emissions. The records are attached.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994 and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa. The facility has submitted 2001 and 2002 reports. The facility appears to be in compliance.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

a) The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

b) The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

c) Since Limco has chosen Option one for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio not less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this Subpart would be a better choice Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

d) Limco will properly train each person that will operate the degreaser before they allowed using the machine. The written syllabus used to in training will be readily available to each trained operator.

The facility appears to be in compliance with the above terms.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

a) Records sufficient to demonstrate the weekly averages of the product usages do not exceed those shown in SC#1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
b) Degreaser records required by Specific Condition #3.
c) Material usages (monthly and 12-month rolling totals).

The facility has exceeded their limitations in Table 2 and has not provided calculations that show that they are in compliance with the MAAC standards.

6. This permit supercedes all previous permits, which are now null and void.

SUMMARY
Limco has submitted records that appear to have exceeded usage and emission limits. The facility also has not submitted calculations that show compliance with the MAAC standards.

ATTACHMENTS
Operating Permit No. 99-026-O(M-1)
2002 Emission Inventory
Material Usage and Emissions
MSDS

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **October 31, 2001**

TO: Dawson Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: Phillip Fielder, P.E., New Source Permits Unit

THROUGH: Peer Review

FROM: Jack Fly, DEQ Regional Office at Tulsa

SUBJECT: Evaluation of Permit Application No. 99-026-O (M-1)
Limco-Airepair, Inc (LA)
Air Permit Modification
Aircraft Component Manufacturing/Repair Facility (SIC 3728)
5304 Lawton Ave
Tulsa County, Tulsa, Oklahoma 74121

INTRODUCTION

In the past, LA had two similar facilities located in Tulsa. On March 30, 2001, LA closed the facility located at 4250 South 76 East Avenue, Tulsa. The Lawton Ave plant is the only LA facility in Tulsa, and will take the workload of both facilities.

The applicant has requested a modification to the existing air permit No. 99-026-O to add another coating process plus increase the use of paints, degreaser solvent, parts cleaning solvents, and pressure testing fluid. The facility manufactures and repairs non-structural parts for the aerospace industry. This facility commenced operations in 1995. LA will remain a synthetic minor facility after the new operations commence.

Since the modification to the facility requested by LA increases the actual emissions by more than 5 tons per year (TPY) and is adding a new piece of equipment, a construction permit and modified operating permit are required per OAC 252:100-7. The fees associated with the permits are $1,500.

When issued Permit 99-026-O (M-1) will cover the entire facility, and all other LA air permits are void.

PROCESS DESCRIPTION

In general, the plant has three product activities i.e., the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.

Manufacturing Process

All the ovens used for drying and soldering have a combined heat rate of 0.80 MMBTUH

First, LA buys thin sheets of aluminum and stainless steel to use in the manufacture and repair of all three products.

The steps in the manufacture of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. LA is required to test most of the heat exchangers that are of a new design. The new units are performance tested for flow vs pressure drop of both the cooling medium (air) over the outside of the heat exchanger, and the medium to be cooled (engine lube oil, hydraulic fluid, etc) which is on the inside of the exchanger. They are also tested for its heat transfer capabilities.

The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated.

The steps in the repair of the air ducts are: inspection for flaws, cleaning, heat dried, repairs made, cleaned, and coated.

WELDING/SOLDERING

Various types of welding are used by LA i.e., MIG, TIG, etc.

The soldering is done by placing assembled, "tinned" parts in natural gas fired ovens. Tinning is a process where the part is coated with the required amount of solder/flux on each joint to be soldered. The part is then heated to a temperature just above the melting point of the solder to allow the solder to melt and flow into the joint to be soldered. The part is then cooled to room temperature in ambient air.

SIZING/SHAPING

This is done with conventional sheet metal shears, sheet metal brakes, stamping machines, etc.

COATING

All products are cleaned and heat dried before coating.

The parts may get some combination of four types of coatings i.e. paint, alodine, anodize, or silicone aluminum dip. Anodizing is done by an outside contractor; all others are done by LA.

Less than 10% of all products are spray-painted. The painting is done in a totally enclosed 12' x 12' x 8' high paint booth using a high volume low pressure spraying rig. The paint over spray is sucked through a 95% efficient dry type filter at 3,500 acfm and exhausts 8 feet above grade through a 12-inch diameter duct.

The alodine process is done by soaking the part in a bath of nitric/chromic acid, which results in the desired surface getting a coat of aluminum oxide. This process does not use heat or electric current.

The new coating process is called Silicone/Aluminum Dip. The dip solution consists of 8.4 gallons of Toluene, 1.0 gallons of Dow #805 silicone resin, and 1.6 pounds of aluminum powder. 61.5 gallons of this solution is placed in a 400-gallon dipping tank that is located in a totally enclosed room (10 ft x 12 ft x 10 high) within the shop. This basically means that the part to be coated is dipped in the solution as opposed to spraying/brushing/etc. After the part is dipped (the part is completely coated) it is hung over the tank to drip and dry. The result is the part gets a thin coat of aluminum filled silicone. The air in the dipping room is exhausted to the outside by a 22,000 acfm fan through a dry type filter in a 14 inch diameter duct to 10 ft above grade. This air that is exhausted is replaced by room air.

Anodizing is a process where a surface on the part gets a coating of aluminum by an electrolysis process. The part is made an anode as part of an electric circuit in a bath of acid, and as a result aluminum is deposited on the part's surface.

CLEANING

Parts are cleaned by different chemicals at different stages in the manufacturing/repair processes. The parts can be cleaned by hand wiping with solvents, acid, or caustic bath followed by water rinse or trichloroethylene degreaser.

The parts are dried after the cleaning process by electric heated ovens or natural gas fired ovens.

The facility operates 16 hours per day, 6 days per week, and 52 weeks per year, or 4,992 hours per year.

EMISSIONS

The significant air emissions are from the hand wiping of parts with solvents and coating. The air emissions from parts drying (combustion of natural gas), welding, and metal sizing/shaping are insignificant, and will not be included in the following emissions analysis.

Purchases of acids and caustics used in the clean lines have been tabulated in the application. The replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Limco estimates the use of trichloroethylene (Perc) for the degreaser to be 520 gallons per year which is shown in the following emission table. This includes material that was collected for reclamations. The emissions shown are the net amounts. The vapor degreaser holds 110 gallons of Perc and has a freeboard ratio of 1.3.

Materials used in cleaning and wipe down of the parts include 2,000 gallons per year (GPY) of MEK and 520 GPY of isopropyl alcohol. The use of mineral spirits in pressure testing is estimated to be 300 GPY. The facility plans to use 95 gallons of ten different primers, topcoats and solvents. A "supercoat" was created by assuming the worst polluting characteristic of each coating. Using this supercoat to represent all coating performed at the facility yields 0.31 TPY of VOC, with a maximum toxic solvent emission of 0.08 TPY of MEK. Assuming transfer and filter efficiencies of zero, a total of 0.36 TPY of particulates are emitted, with a maximum toxic particulate emission of 0.15 TPY of polymeric HDI.

The following tables show the total all facility VOC and HAPs emissions.

FACILITY TOTAL EMISSIONS[2]

USE	POLLUTANT	CAS NO.	HAP	CAT	De minimis		Permit limits	
					PPH	TPY	PPH	TPY
Dip Coat	Toluene	108883	Y	C	5.60	6.00	1.60	5.0
	Xylene	133027	Y	C	5.60	6.00	0.12	0.36
Degreaser	Perc	79016	Y	A	0.57	0.60	0.96	3.0[3]
Wipe	MEK	108101	N	C	5.60	6.00	2.35	7.5[4]
Testing	MinSprts	64742887	N	C	5.60	6.00	0.80	2.50
Wipe	IPA	67630	N	C	5.60	6.00	0.64	2.00
Paint [1]	Various	Various	NA	NA	(2)	(2)	0.24	0.56
TOTAL VOC								20.92
TOTAL HAPS								8.36

(1) If all the paint VOCs were Cat A the de minimis would not exceeded. (2) Does not include combustion emissions pollutants which were calculated to be less than 1.0 TPY. (3) The emissions of the perc are exempt from the Subchapter 41, Part 5 toxic rules since it is under the NESHAP Subpart T. (4) EPA Screen 3 modeling shows a maximum ground level concentration of 592.6 micrograms per cubic meter (ug/m3) for an emission rate of 2.35 pounds per hour as compared to an allowable maximum acceptable ambient concentration (MAAC) of 59,000ug/m3.

The following table shows the VOC emission data comparison between the new permit and the existing permit. This somewhat large increase in emissions is the result of this facility doing the work of two.

Pollutant	Existing	New	Increase
Paint	0.31	0.56	0.25
Perc	1.0	3.0	2.0
Cleaning	3.29	7.37	4.08
Testing	1.12	2.50	1.38
Dip: Toluene	0.0	5.0	5.0
Xylene	0.0	0.36	0.36
Total	5.72	18.79	13.07

FEDERAL REGULATIONS

PSD, 40 CFR 52 [Not Applicable]
Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]
There are no affected facilities or sources under any Subpart.

NESHAP, 40 CFR 61 [Not Applicable]
No benzene, arsenic, mercury, beryllium, vinyl chloride, coke oven emissions, asbestos or radionuclides are emitted.

NESHAP, 40 CFR Part 63 [T Applicable]
Subpart T (Halogenated Solvent Cleaners) This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. Applicant is subject to Subpart T, and has complied with the initial notification requirement. Now, a yearly report is required to be sent to the local DEQ office and an additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. Applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. Applicant is in compliance.
Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this Subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Primary Standards are in Appendix E and Secondary Standards are in Appendix F of the Air Pollution Control Rules. At this time, all of Oklahoma is in attainment of these standards.

OAC 252:100-4 (New Source Performance Standards) [Not Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2000, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G.

OAC 252:100-5 (Registration, Emission Inventory and Annual Fees) [Applicable]
This subchapter requires potential sources of air contaminants to register with the Air Quality Division. An emission inventory was submitted and fees paid for previous years as required.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
This facility qualifies as a minor source since total emissions of each criteria pollutant do not exceed 100 TPY and HAP emissions do not exceed the 10/25 TPY thresholds. As such, modeling, BACT, and public review are not necessary.

OAC 252:100-8 (Permits for Part 70 Sources) [Applicable]
This facility was originally permitted as a synthetic minor and this permit modification does not alter its permit status. Therefore this facility is not an affected source under this Subchapter.

OAC 252:100-9 (Excess Emission Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as practical during normal office hours and no later than **4:30 pm** the next working day following the malfunction or release. Further written notice containing specific details of the incident shall be submitted within ten (10) business days.

OAC 252:100-13 (Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this Subchapter.

OAC 252:100-19 (Particulate Matter) [Applicable]
Section 19-4 limits particulate emissions from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4-1 lists natural gas TPM emissions to be 7.6 lb/million scf or about 0.0076 lb/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Based on past experience with this facility, the potential for violating the standards are negligible.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. Under normal operating conditions, this facility will not cause a problem in this area; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100 –31 (Sulfur Compounds) [Applicable]
Because the driers burn commercial grade natural gas exclusively they are in compliance with the requirements of this Subchapter.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
These total maximum heat rate of combustion devices combined are rated at less than 1.0 MMBTUH and therefore is not an affected source under this Subchapter

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
This facility has none of the affected sources: foundry cupola, blast furnace, basic oxygen furnace, catalytic cracking unit, or catalytic reforming unit.

OAC 252:100-37 (Organic Materials) [Not Applicable]
-15 Storage of VOCs. This facility does not store any hydrocarbon liquids, and is not an affected source under this section.
-36 Fuel Burning Equipment. Under this Section Limco is required to adjust the fuel combustion for complete fuel combustion. LA burns only commercial grade natural gas in the combustion units which promotes compliance. The facility is anticipated to remain in compliance under normal operations.
-25 The coating of parts operations will consume less than 50 pounds of VOCs per day which is less than 100 pounds per day, and will therefore be exempt from this Subchapter.

OAC 252:100-39 (Volatile Organic Compounds in Nonattainment Areas) [Applicable]
Part 7, Section 39-46 concerns coating of metal parts and products. Limco is exempt as the VOC emissions from surface coating and cleaning will not exceed 10 TPY.

OAC 252:100-41 (Hazardous and Toxic Air Contaminants) [Not Applicable- **State Only]**
Part 3 addresses hazardous air contaminants. NESHAPs, as found in 40 CFR 61, are adopted by reference as they exist on July 1, 2000, with the exception of Subparts B, H, I, K, Q, R, T and W, and Appendices D and E, all of which address radionuclides. In addition, General Provisions as found in 40 CFR Part 63 Subpart A, and the Maximum Achievable Control Technology (MACT) standards as found in 40 CFR 63 Subparts F, G, H, I, L, M. N, O, Q, R, S, T, U, W, X, Y, CC, DD, EE, GG, HH, II, JJ, KK, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, RRR, TTT, VVV, and XXX are adopted by reference as they exist on July 1, 2000. As noted above, this facility is not an affected source.

Part 5 is a state-only requirement governing toxic air contaminants. New sources (constructed after March 9, 1987) emitting any category A pollutant in amounts greater than the Category A de minimis level must be reviewed for the application of BACT. All sources are required to demonstrate that emissions of any toxic air contaminant do not cause or contribute to a violation of the MAAC. There are two toxics that exceed their de minimis, MEK and Perc. Perc is a HAP and also a Cat A toxic which is exempt from this Subchapter (it is under NESHAP, Subchapter T). Screen modeling for MEK has a GLC of 592.6 ug/m3 as compared to a MAAC of 59,000 ug/m3. The facility is in compliance.

Limco is not an affected source with respect to the following rules.

OAC 252:100-15	Mobile Sources	Not in source category
OAC 252:100-17	Incinerators	Not type of emission unit
OAC 252:100-21	PM from Wood waste Burning	Not type of emission unit
OAC 252:100-23	Cotton Gins	Not type of emission unit
OAC 252:100-24	Grain Elevators	Not in source category
OAC 252:100-33	Nitrogen Oxides	Exempted by size
OAC 252:100-35	Carbon Monoxide	Not in source category
OAC 252:100-43	Part 3 - Specific Methods	Not in source category
OAC 252:100-47	Landfills	Not in source category

INSPECTION

DEQ permit writer Jack Fly accompanied by Bob Johnson, Limco Plant Mgr, inspected the facility on September 24, 2001. The following table shows the VOC use after 9 months of operation, the quantities that were disposed of, the permit limits and the projected 12 months quantities used. The projected quantities show that under normal operating conditions the facility will not exceed the permit limits or the Toxic category, except the Perc which is exempt from Subchapter 41, Part 5 (as stated in Part 3 exemptions) requirements since Perc is a HAP and is subject to NESHAP, Subpart T.

Pollutant	Used, 9mos, 55gal drums	Disposed, 55gal drums	Pound/ Gallon	Tons Used, 9mos[1]	Projected Tons, 12 Mos	Permit Limits, Tons	Cat/ HAP	PPH	De Minimis	
									PPH	TPY
Toluene	18	0	6.9	3.41	4.53	5.0	C/Y	1.60	5.60	6.00
Perc	13	8	12.1	1.66	2.20	3.0	A/Y	0.96	0.57	0.60
MEK	34	4	6.7	5.53	7.37	7.5	C/N	2.35	5.60	6.00
MinSprts	8	4	6.3	0.70	0.93	2.50	C/N	0.80	5.60	6.00
IPA	11	4	6.5	1.25	1.66	2.00	C/N	0.64	5.60	6.00
VOC/PAINT	NA	NA	NA	0.14	0.19	0.19	A/Y	0.08	0.57	0.60

(1) Tons used is a net quantity i.e., purchased minus disposal.
Specifically the degreaser is operated infrequently, and was not in use at the time of this inspection. Certain recordkeeping requirements had not been met and a discussion as to how to meet these requirements ensued. All records and appropriate labeling of the degreaser were in place as of December 3, 1999.

TIER CLASSIFICATION AND PUBLIC REVIEW

This application has been classified as Tier I based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

FEES PAID

Permit fees of $1500 was paid; $1000 for construction and $500 for operating.

SUMMARY

The applicant has demonstrated compliance with the applicable air quality rules and regulations. Ambient air quality standards are not threatened at this site. There are no active Compliance or Enforcement Air Quality issues concerning this facility. Issuance of the permit is recommended.

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

LIMCO Airepair **Permit No. 99-026-O(M-1)**
Aircraft Subassembly Manufacturing and Repair

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on June 5, 2001, with supplemental information received October 19, 2001. The Evaluation Memorandum dated October 31, 2001 explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein.

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit limits	
		PPH	TPY
Dip Coat	Toluene	1.60	5.0
	Xylene	0.12	0.36
Degreaser	Perc	0.96	3.0
Wipe	MEK	2.35	7.50
Testing	MinSprts	0.80	2.50
Wipe	IPA	0.64	2.00
Paint (1)	Various	0.24	0.56
TOTAL VOC			20.9
TOTAL HAPS			8.36

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD(1)	GPY
Toluene	5.1	1320
805 Resin	0.60	157
Perc	0.20	520
MEK	7.70	2000
MinSprts	1.15	300
IPA	2.00	520
Paints, various	0.31	80

(1) These GPD are work weekly averages.

2. Alternate products and production quantities can be varied under the following conditions.
   a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
   b. A change in either production or products is permitted provided there would be no increase in the quantity or a decrease in the quality of the resulting emissions. Additionally the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC252:100-41.
   c. LA shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.
   d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994 and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

   a) The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

   b) The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

   c) Since Limco has chosen Option one for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio not less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this Subpart would be a better choice Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

   d) Limco will properly train each person that will operate the degreaser before they allowed using the machine. The written syllabus used to in training will be readily available to each trained operator.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

a) Records sufficient to demonstrate the weekly averages of the product usages do not exceed those shown in SC#1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
b) Degreaser records required by Specific Condition #3.
c) Material usages (monthly and 12-month rolling totals).

6. This permit supercedes all previous permits, which are now null and void.

2003 TEAM ID **3620**

LIMCO AIREPAIR INC & AERODUCT

5304 S LAWTON AVE

Wednesday, January 21, 200

Updated: 4/10/2003

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions: Behind Pepsi Plant off I-44 west of the river

Responsible Official

Contact: BOB JOHNSON
Phone: (918) 445-4314
Fax: (918) 446-8704

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics - VOC	0	
Isopropanol	0.59	67-63-0
Methyl ethyl ketone	7.41	78-93-3
Methyl isobutyl ketone	0.02	108-10-1
Methyl N-amyl ketone	0.01	110-43-0
Mineral Spirits	1.05	64475-85-0
Toluene	3.82	108-88-3
Trichloroethylene	1.28	79-01-6
Xylenes (mixed isomers)	0.21	1330-20-7

POINTS

Seq.	Name	Status	UTMH	UTMV
1	Wipedown	Active	239.421	3982.281
2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	MEK Degreasing	Active	239.421	3982.281
5	Dip Coating	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Organic Solvent Evaporation	1.60	0	Tons Product	2080	8	5	4018880500	N
2	Organic Solvent Evaporation	4.30	0.002	Tons Product	2080	8	5	4018880500	N
3	Surface Coating Operations	0.10	0	Gallons of Coating	2080	8	5	4020011000	N
4	Organic Solvent Evaporation	4.30	0.002	Gallons Solvent Consumed	2080	8	5	4010039800	N
5	Surface Coating Operations	3.90	0.001	Tons Coating Mix Applied	2080	8	5	4020010100	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	Mineral Spirits	1.05	2.5	Mass Balance	No Controls	0.00%	No Controls	0.00%
1	Isopropanol	0.59	2	Mass Balance	No Controls	0.00%	No Controls	0.00%
2	Methyl ethyl ketone	3.7	7.5	Mass Balance	No Controls	0.00%	No Controls	0.00%
2	Trichloroethylene	0.64	3	Mass Balance	No Controls	0.00%	No Controls	0.00%
3	Xylenes (mixed isomers)	0.02	0	Mass Balance	No Controls	0.00%	No Controls	0.00%
3	Toluene	0.02	0	Mass Balance	No Controls	0.00%	No Controls	0.00%
3	Methyl isobutyl ketone	0.02	0	Mass Balance	No Controls	0.00%	No Controls	0.00%
3	Methyl N-amyl ketone	0.01	0	Mass Balance	No Controls	0.00%	No Controls	0.00%
3	Methyl ethyl ketone	0.01	0	Mass Balance	No Controls	0.00%	No Controls	0.00%
3	* Volatile Organics - VOC	0	0	Mass Balance	No Controls	0.00%	No Controls	0.00%

4	Methyl ethyl ketone	3.7	7.5	Mass Balance	No Controls	0.00%	No Controls	0.00%
4	Trichloroethylene	0.64	3	Mass Balance	No Controls	0.00%	No Controls	0.00%
5	Toluene	3.8	5	Mass Balance	No Controls	0.00%	No Controls	0.00%
5	Xylenes (mixed isomers)	0.19	0.36	Mass Balance	No Controls	0.00%	No Controls	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4
2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	3
5	18426	Dip Coating Fugitives	0	0	0	0	5

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of December 31, 2003 and the twelve months then ended

Plant-Wide Totals:			Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde		0.00	0.05	Haps
00067-63-0	Isopropyl Alcohol		1.43	2,868.54	#N/A
00071-36-3	Butyl Alcohol		0.01	10.24	#N/A
00071-43-2	Benzene		0.00	0.00	Haps
00078-83-1	Isobutanol		0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone		4.80	9,593.84	Haps
00079-01-6	Trichloroethylene		2.18	4,354.44	Haps
00100-41-4	Ethyl Benzene		0.04	84.01	Haps
00110-43-0	Methyl N-amyl Ketone		0.00	3.57	#N/A
00108-10-1	Methyl Isobutyl Ketone		0.01	23.49	Haps
00108-65-6	PGME Acetate		0.00	3.57	#N/A
00108-88-3	Toluene		4.76	9,529.95	Haps
00107-98-2	1-Methoxyl-2-propanol		0.00	0.00	#N/A
00123-86-4	Butyl Acetate		0.00	3.57	#N/A
00141-43-5	Ethanolamine		0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone		0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide		0.02	48.18	#N/A
01330-20-7	Xylene		0.38	754.51	Haps
01333-82-0	Chromic Acid		0.00	0.00	#N/A
07664-93-9	Sulfuric Acid		2.75	5,494.51	#N/A
07697-37-2	Nitric Acid		0.23	460.99	#N/A
08052-41-3	C-66 Stoddard Solvent		0.00	6.90	#N/A
28182-81-2	Hexane, 1,6-Diisocynate		0.04	78.12	#N/A
64742-52-5	Heavy Napthenic Petroleum		0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha		0.90	1,806.45	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)		0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl		0.00	0.00	#N/A
	Totals		18.06	36,138.91	
	Haps Totals		12.17	24340.29	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of November 30, 2003 and the twelve months then ended

Plant-Wide Totals:		Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde	0.00	0.05	Haps
00067-63-0	Isopropyl Alcohol	1.48	2,965.06	#N/A
00071-36-3	Butyl Alcohol	0.00	8.96	#N/A
00071-43-2	Benzene	0.00	0.00	Haps
00078-83-1	Isobutanol	0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone	4.82	9,647.56	Haps
00079-01-6	Trichloroethylene	2.44	4,874.57	Haps
00100-41-4	Ethyl Benzene	0.04	80.42	Haps
00110-43-0	Methyl N-amyl Ketone	0.00	3.57	#N/A
00108-10-1	Methyl Isobutyl Ketone	0.01	21.00	Haps
00108-65-6	PGME Acetate	0.00	3.57	#N/A
00108-88-3	Toluene	4.90	9,794.98	Haps
00107-98-2	1-Methoxyl-2-propanol	0.00	0.00	#N/A
00123-86-4	Butyl Acetate	0.00	3.57	#N/A
00141-43-5	Ethanolamine	0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone	0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide	0.02	48.18	#N/A
01330-20-7	Xylene	0.36	713.36	Haps
01333-82-0	Chromic Acid	0.00	0.00	#N/A
07664-93-9	Sulfuric Acid	2.75	5,494.51	#N/A
07697-37-2	Nitric Acid	0.23	460.99	#N/A
08052-41-3	C-66 Stoddard Solvent	0.00	6.90	#N/A
28182-81-2	Hexane, 1,6-Diisocynate	0.04	78.12	#N/A
64742-52-5	Heavy Napthenic Petroleum	0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha	0.91	1,822.30	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl	0.00	0.00	#N/A
Totals		18.51	37,041.65	
Haps Totals		12.57	25131.94	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of October 31, 2003 and the twelve months then ended

Plant-Wide Totals:			Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde		0.00	0.04	Haps
00067-63-0	Isopropyl Alcohol		1.53	3,061.58	#N/A
00071-36-3	Butyl Alcohol		0.00	7.68	#N/A
00071-43-2	Benzene		0.00	0.00	Haps
00078-83-1	Isobutanol		0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone		4.85	9,703.16	Haps
00079-01-6	Trichloroethylene		2.70	5,394.70	Haps
00100-41-4	Ethyl Benzene		0.04	80.64	Haps
00110-43-0	Methyl N-amyl Ketone		0.00	3.57	#N/A
00108-10-1	Methyl Isobutyl Ketone		0.01	18.51	Haps
00108-65-6	PGME Acetate		0.00	3.57	#N/A
00108-88-3	Toluene		5.07	10,132.31	Haps
00107-98-2	1-Methoxyl-2-propanol		0.00	0.00	#N/A
00123-86-4	Butyl Acetate		0.00	3.57	#N/A
00141-43-5	Ethanolamine		0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone		0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide		0.02	48.18	#N/A
01330-20-7	Xylene		0.35	701.62	Haps
01333-82-0	Chromic Acid		0.00	0.00	#N/A
07664-93-9	Sulfuric Acid		1.96	3,924.65	#N/A
07697-37-2	Nitric Acid		0.23	460.99	#N/A
08052-41-3	C-66 Stoddard Solvent		0.00	6.90	#N/A
28182-81-2	Hexane, 1,6-Diisocynate		0.04	78.12	#N/A
64742-52-5	Heavy Napthenic Petroleum		0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha		0.93	1,869.84	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)		0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl		0.00	0.00	#N/A
	Totals		18.24	36,513.61	
	Haps Totals		13.02	26030.98	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of September 30, 2003 and the twelve months then ended

Plant-Wide Totals:		Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde	0.00	0.04	Haps
00067-63-0	Isopropyl Alcohol	1.58	3,158.10	#N/A
00071-36-3	Butyl Alcohol	0.00	6.40	#N/A
00071-43-2	Benzene	0.00	0.00	Haps
00078-83-1	Isobutanol	0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone	4.88	9,758.76	Haps
00079-01-6	Trichloroethylene	2.96	5,914.83	Haps
00100-41-4	Ethyl Benzene	0.04	79.00	Haps
00110-43-0	Methyl N-amyl Ketone	0.00	2.38	#N/A
00108-10-1	Methyl Isobutyl Ketone	0.01	14.83	Haps
00108-65-6	PGME Acetate	0.00	2.38	#N/A
00108-88-3	Toluene	5.20	10,397.34	Haps
00107-98-2	1-Methoxyl-2-propanol	0.00	0.00	#N/A
00123-86-4	Butyl Acetate	0.00	2.38	#N/A
00141-43-5	Ethanolamine	0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone	0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide	0.02	48.18	#N/A
01330-20-7	Xylene	0.34	676.23	Haps
01333-82-0	Chromic Acid	0.00	0.00	#N/A
07664-93-9	Sulfuric Acid	1.57	3,139.72	#N/A
07697-37-2	Nitric Acid	0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent	0.00	6.90	#N/A
28182-81-2	Hexane, 1,6-Diisocynate	0.04	78.12	#N/A
64742-52-5	Heavy Napthenic Petroleum	0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha	0.96	1,917.38	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl	0.00	0.00	#N/A
	Totals	18.11	36,216.95	
	Haps Totals	13.43	26841.03	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of August 31, 2003 and the twelve months then ended

Plant-Wide Totals:		Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde	0.00	0.04	Haps
00067-63-0	Isopropyl Alcohol	1.61	3,222.45	#N/A
00071-36-3	Butyl Alcohol	0.00	6.40	#N/A
00071-43-2	Benzene	0.00	0.00	Haps
00078-83-1	Isobutanol	0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone	4.91	9,812.48	Haps
00079-01-6	Trichloroethylene	3.22	6,434.96	Haps
00100-41-4	Ethyl Benzene	0.04	75.41	Haps
00110-43-0	Methyl N-amyl Ketone	0.00	1.19	#N/A
00108-10-1	Methyl Isobutyl Ketone	0.01	13.64	Haps
00108-65-6	PGME Acetate	0.00	1.19	#N/A
00108-88-3	Toluene	5.33	10,662.37	Haps
00107-98-2	1-Methoxyl-2-propanol	0.00	0.00	#N/A
00123-86-4	Butyl Acetate	0.00	1.19	#N/A
00141-43-5	Ethanolamine	0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone	0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide	0.02	48.18	#N/A
01330-20-7	Xylene	0.32	635.22	Haps
01333-82-0	Chromic Acid	0.00	0.00	#N/A
07664-93-9	Sulfuric Acid	1.57	3,139.72	#N/A
07697-37-2	Nitric Acid	0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent	0.00	6.90	#N/A
28182-81-2	Hexane, 1,6-Diisocynate	0.04	78.12	#N/A
64742-52-5	Heavy Napthenic Petroleum	0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha	0.95	1,901.54	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl	0.00	0.00	#N/A
	Totals	18.53	37,054.98	
	Haps Totals	13.83	27634.12	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of July 31, 2003 and the twelve months then ended

Plant-Wide Totals:			Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde		0.00	0.03	Haps
00067-63-0	Isopropyl Alcohol		1.64	3,286.80	#N/A
00071-36-3	Butyl Alcohol		0.00	5.12	#N/A
00071-43-2	Benzene		0.00	0.00	Haps
00078-83-1	Isobutanol		0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone		4.93	9,868.08	Haps
00079-01-6	Trichloroethylene		3.48	6,955.09	Haps
00100-41-4	Ethyl Benzene		0.04	70.97	Haps
00110-43-0	Methyl N-amyl Ketone		0.00	1.19	#N/A
00108-10-1	Methyl Isobutyl Ketone		0.01	11.15	Haps
00108-65-6	PGME Acetate		0.00	1.19	#N/A
00108-88-3	Toluene		5.46	10,927.40	Haps
00107-98-2	1-Methoxyl-2-propanol		0.00	0.00	#N/A
00123-86-4	Butyl Acetate		0.00	1.19	#N/A
00141-43-5	Ethanolamine		0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone		0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide		0.02	48.18	#N/A
01330-20-7	Xylene		0.30	592.34	Haps
01333-82-0	Chromic Acid		0.00	0.00	#N/A
07664-93-9	Sulfuric Acid		1.57	3,139.72	#N/A
07697-37-2	Nitric Acid		0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent		0.00	6.90	#N/A
28182-81-2	Hexane, 1,6-Diisocynate		0.04	78.12	#N/A
64742-52-5	Heavy Napthenic Petroleum		0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha		0.94	1,885.70	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)		0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl		0.00	0.00	#N/A

Totals	18.94	37,893.15	
Haps Totals	14.22	28425.06	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of June 30, 2003 and the twelve months then ended

Plant-Wide Totals:			Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde		0.00	0.04	Haps
00067-63-0	Isopropyl Alcohol		1.66	3,316.51	#N/A
00071-36-3	Butyl Alcohol		0.00	5.12	#N/A
00071-43-2	Benzene		0.00	0.00	Haps
00078-83-1	Isobutanol		0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone		4.96	9,921.80	Haps
00079-01-6	Trichloroethylene		3.74	7,475.22	Haps
00100-41-4	Ethyl Benzene		0.03	65.40	Haps
00110-43-0	Methyl N-amyl Ketone		0.00	2.38	#N/A
00108-10-1	Methyl Isobutyl Ketone		0.01	12.34	Haps
00108-65-6	PGME Acetate		0.00	2.38	#N/A
00108-88-3	Toluene		5.60	11,192.43	Haps
00107-98-2	1-Methoxyl-2-propanol		0.00	0.00	#N/A
00123-86-4	Butyl Acetate		0.00	2.38	#N/A
00141-43-5	Ethanolamine		0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone		0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide		0.02	48.18	#N/A
01330-20-7	Xylene		0.27	543.44	Haps
01333-82-0	Chromic Acid		0.00	0.00	#N/A
07664-93-9	Sulfuric Acid		1.57	3,139.72	#N/A
07697-37-2	Nitric Acid		0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent		0.00	3.45	#N/A
28182-81-2	Hexane, 1,6-Diisocynate		0.04	85.22	#N/A
64742-52-5	Heavy Napthenic Petroleum		0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha		0.93	1,869.86	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)		0.00	2.20	#N/A
68037-81-0	Diphanyl Methyl		0.00	0.00	#N/A
	Totals		19.34	38,699.85	
	Haps Totals		14.61	29210.67	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of May 31, 2003 and the twelve months then ended

Plant-Wide Totals:				Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde			0.00	0.03	Haps
00067-63-0	Isopropyl Alcohol			1.69	3,378.40	#N/A
00071-36-3	Butyl Alcohol			0.00	5.12	#N/A
00071-43-2	Benzene			0.00	0.00	Haps
00078-83-1	Isobutanol			0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone			4.99	9,973.44	Haps
00079-01-6	Trichloroethylene			4.00	7,995.35	Haps
00100-41-4	Ethyl Benzene			0.03	60.84	Haps
00110-43-0	Methyl N-amyl Ketone			0.00	2.38	#N/A
00108-10-1	Methyl Isobutyl Ketone			0.01	12.34	Haps
00108-65-6	PGME Acetate			0.00	2.38	#N/A
00108-88-3	Toluene			5.73	11,455.90	Haps
00107-98-2	1-Methoxyl-2-propanol			0.00	0.00	#N/A
00123-86-4	Butyl Acetate			0.00	2.38	#N/A
00141-43-5	Ethanolamine			0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone			0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide			0.02	48.18	#N/A
01330-20-7	Xylene			0.25	500.23	Haps
01333-82-0	Chromic Acid			0.00	0.00	#N/A
07664-93-9	Sulfuric Acid			1.57	3,139.72	#N/A
07697-37-2	Nitric Acid			0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent			0.00	0.00	#N/A
28182-81-2	Hexane, 1,6-Diisocynate			0.05	92.32	#N/A
64742-52-5	Heavy Napthenic Petroleum			0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha			0.94	1,885.71	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)			0.00	0.00	#N/A
68037-81-0	Diphanyl Methyl			0.00	0.00	#N/A

Totals	19.79	39,566.50	
Haps Totals	15.01	29998.13	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of April 30, 2003 and the twelve months then ended

Plant-Wide Totals:			Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde		0.00	0.03	Haps
00067-63-0	Isopropyl Alcohol		1.74	3,474.92	#N/A
00071-36-3	Butyl Alcohol		0.00	2.56	#N/A
00071-43-2	Benzene		0.00	0.00	Haps
00078-83-1	Isobutanol		0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone		5.01	10,029.04	Haps
00079-01-6	Trichloroethylene		4.26	8,515.48	Haps
00100-41-4	Ethyl Benzene		0.03	58.18	Haps
00110-43-0	Methyl N-amyl Ketone		0.00	5.77	#N/A
00108-10-1	Methyl Isobutyl Ketone		0.00	8.55	Haps
00108-65-6	PGME Acetate		0.00	3.57	#N/A
00108-88-3	Toluene		5.86	11,719.04	Haps
00107-98-2	1-Methoxyl-2-propanol		0.00	0.00	#N/A
00123-86-4	Butyl Acetate		0.00	3.57	#N/A
00141-43-5	Ethanolamine		0.17	337.26	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone		0.24	481.80	#N/A
01310-58-3	Potassium Hydroxide		0.02	48.18	#N/A
01330-20-7	Xylene		0.23	466.23	Haps
01333-82-0	Chromic Acid		0.00	0.00	#N/A
07664-93-9	Sulfuric Acid		1.18	2,354.79	#N/A
07697-37-2	Nitric Acid		0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent		0.00	0.00	#N/A
28182-81-2	Hexane, 1,6-Diisocynate		0.04	85.20	#N/A
64742-52-5	Heavy Napthenic Petroleum		0.10	192.72	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha		0.97	1,933.25	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)		0.00	0.00	#N/A
68037-81-0	Diphanyl Methyl		0.00	0.00	#N/A
	Totals		19.85	39,720.14	
	Haps Totals		15.39	30796.55	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of March 31, 2003 and the twelve months then ended

Plant-Wide Totals:				Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde			0.00	0.02	Haps
00067-63-0	Isopropyl Alcohol			1.79	3,571.44	#N/A
00071-36-3	Butyl Alcohol			0.00	1.28	#N/A
00071-43-2	Benzene			0.00	0.00	Haps
00078-83-1	Isobutanol			0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone			5.04	10,084.64	Haps
00079-01-6	Trichloroethylene			4.52	9,035.61	Haps
00100-41-4	Ethyl Benzene			0.03	55.52	Haps
00110-43-0	Methyl N-amyl Ketone			0.00	6.96	#N/A
00108-10-1	Methyl Isobutyl Ketone			0.00	7.25	Haps
00108-65-6	PGME Acetate			0.00	4.76	#N/A
00108-88-3	Toluene			5.99	11,982.18	Haps
00107-98-2	1-Methoxyl-2-propanol			0.00	0.00	#N/A
00123-86-4	Butyl Acetate			0.00	4.76	#N/A
00141-43-5	Ethanolamine			0.08	168.63	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone			0.12	240.90	#N/A
01310-58-3	Potassium Hydroxide			0.01	24.09	#N/A
01330-20-7	Xylene			0.22	432.68	Haps
01333-82-0	Chromic Acid			0.00	0.00	#N/A
07664-93-9	Sulfuric Acid			1.18	2,354.79	#N/A
07697-37-2	Nitric Acid			0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent			0.00	0.00	#N/A
28182-81-2	Hexane, 1,6-Diisocynate			0.04	85.20	#N/A
64742-52-5	Heavy Napthenic Petroleum			0.05	96.36	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha			0.99	1,980.79	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)			0.00	0.00	#N/A
68037-81-0	Diphanyl Methyl			0.00	0.00	#N/A
	Totals			20.06	40,137.86	
	Haps Totals			15.80	31597.90	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of February 28, 2003 and the twelve months then ended

Plant-Wide Totals:			Tons Per Year	12 Month Accumulated Pounds	Haps
00050-00-0	Formaldehyde		0.00	0.02	Haps
00067-63-0	Isopropyl Alcohol		1.83	3,667.96	#N/A
00071-36-3	Butyl Alcohol		0.00	1.28	#N/A
00071-43-2	Benzene		0.00	0.00	Haps
00078-83-1	Isobutanol		0.00	0.00	#N/A
00078-93-3	Methyl ethyl ketone		5.07	10,138.36	Haps
00079-01-6	Trichloroethylene		4.78	9,555.74	Haps
00100-41-4	Ethyl Benzene		0.03	52.94	Haps
00110-43-0	Methyl N-amyl Ketone		0.01	10.35	#N/A
00108-10-1	Methyl Isobutyl Ketone		0.00	8.44	Haps
00108-65-6	PGME Acetate		0.00	5.95	#N/A
00108-88-3	Toluene		6.12	12,245.32	Haps
00107-98-2	1-Methoxyl-2-propanol		0.00	0.00	#N/A
00123-86-4	Butyl Acetate		0.00	5.95	#N/A
00141-43-5	Ethanolamine		0.08	168.63	#N/A
00872-50-4	N-Methyl-2-Pyrrolidone		0.12	240.90	#N/A
01310-58-3	Potassium Hydroxide		0.01	24.09	#N/A
01330-20-7	Xylene		0.20	402.70	Haps
01333-82-0	Chromic Acid		0.00	0.00	#N/A
07664-93-9	Sulfuric Acid		0.39	784.93	#N/A
07697-37-2	Nitric Acid		0.00	0.00	#N/A
08052-41-3	C-66 Stoddard Solvent		0.00	0.00	#N/A
28182-81-2	Hexane, 1,6-Diisocynate		0.04	85.20	#N/A
64742-52-5	Heavy Napthenic Petroleum		0.05	96.36	#N/A
64742-88-7	Medium Aliphatic Solvent Naptha		1.01	2,028.33	#N/A
64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)		0.00	0.00	#N/A
68037-81-0	Diphanyl Methyl		0.00	0.00	#N/A
	Totals		19.74	39,523.45	
	Haps Totals		16.20	32403.52	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of January 31, 2003 and the twelve months then ended

Plant-Wide Totals:						Tons Per Year	12 Month Accumulated Pounds	Haps
		00050-00-0	Formaldehyde			0.00	0.02	Haps
		00067-63-0	Isopropyl Alcohol			1.88	3,764.48	#N/A
		00071-36-3	Butyl Alcohol			0.00	0.00	#N/A
		00071-43-2	Benzene			0.00	0.00	Haps
		00078-83-1	Isobutanol			0.00	0.00	#N/A
		00078-93-3	Methyl ethyl ketone			5.10	10,193.96	Haps
		00079-01-6	Trichloroethylene			5.04	10,075.87	Haps
		00100-41-4	Ethyl Benzene			0.03	52.15	Haps
		00110-43-0	Methyl N-amyl Ketone			0.01	10.35	#N/A
		00108-10-1	Methyl Isobutyl Ketone			0.00	5.95	Haps
		00108-65-6	PGME Acetate			0.00	5.95	#N/A
		00108-88-3	Toluene			6.26	12,510.35	Haps
		00107-98-2	1-Methoxyl-2-propanol			0.00	0.00	#N/A
		00123-86-4	Butyl Acetate			0.00	5.95	#N/A
		00141-43-5	Ethanolamine			0.08	168.63	#N/A
		00872-50-4	N-Methyl-2-Pyrrolidone			0.12	240.90	#N/A
		01310-58-3	Potassium Hydroxide			0.01	24.09	#N/A
		01330-20-7	Xylene			0.19	381.36	Haps
		01333-82-0	Chromic Acid			0.00	0.00	#N/A
		07664-93-9	Sulfuric Acid			0.39	784.93	#N/A
		07697-37-2	Nitric Acid			0.00	0.00	#N/A
		08052-41-3	C-66 Stoddard Solvent			0.00	0.00	#N/A
		28182-81-2	Hexane, 1,6-Diisocynate			0.04	85.20	#N/A
		64742-52-5	Heavy Napthenic Petroleum			0.05	96.36	#N/A
		64742-88-7	Medium Aliphatic Solvent Naptha			1.04	2,075.87	#N/A
		64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)			0.00	0.00	#N/A
		68037-81-0	Diphanyl Methyl			0.00	0.00	#N/A
			Totals			20.24	40,482.37	
			Haps Totals			16.62	33219.66	Haps

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of December 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			4354.44	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	7.87			81.91	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			9471.30	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	66.67			702.24	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			5494.51	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			460.99	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.05	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			4.92	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	1.28			10.24	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	4.08			37.88	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			2.10	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	2.49			23.49	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			58.65	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			3.57	#N/A
701330-20-7	7	01330-20-7	Xylene	4.08			52.27	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			6.90	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			78.12	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	158.46			1806.45	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			2863.62	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9555.96	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			3.57	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			3.57	#N/A
				2436.13			36138.91	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of November 30, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			4874.57	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	4.06			78.32	Haps
600108-88-3	6	00108-88-3	Toluene	723.00			9738.81	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	38.39			664.23	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	1569.86			5494.51	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			460.99	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.01			0.05	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			4.92	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	1.28			8.96	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			33.80	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			2.10	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	2.49			21.00	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			56.17	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			3.57	#N/A
701330-20-7	7	01330-20-7	Xylene	2.95			49.13	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			6.90	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			78.12	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77			1822.30	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			2960.14	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9613.76	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			3.57	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			3.57	#N/A
				3866.91			37041.65	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of October 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			5394.70	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	5.92			78.54	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			10078.62	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	50.85			654.50	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	784.93			3924.65	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	460.99			460.99	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.04	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			4.92	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	1.28			7.68	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			31.60	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			2.10	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	3.68			18.51	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			53.69	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	1.19			3.57	#N/A
701330-20-7	7	01330-20-7	Xylene	4.14			47.12	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			6.90	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			78.12	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77			1869.84	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			3056.66	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9671.56	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	1.19			3.57	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	1.19			3.57	#N/A
				3635.53			36513.61	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of September 30, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			5914.83	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	7.87			76.90	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			10346.13	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	66.67			632.31	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			3139.72	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.04	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			4.92	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	0.00			6.40	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	4.08			29.40	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			2.10	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	1.19			14.83	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			51.21	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	1.19			2.38	#N/A
701330-20-7	7	01330-20-7	Xylene	3.94			43.92	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			6.90	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			78.12	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	190.15			1917.38	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	257.40			3153.18	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9729.36	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	1.19			2.38	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	1.19			2.38	#N/A
				2500.84			36216.95	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of August 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			6434.96	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	8.72			73.31	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			10613.64	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	69.53			594.30	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			3139.72	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.01			0.04	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			4.92	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	1.28			6.40	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			25.32	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			2.10	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	2.49			13.64	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			48.73	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			1.19	#N/A
701330-20-7	7	01330-20-7	Xylene	2.95			40.92	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			6.90	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			78.12	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	190.15			1901.54	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	257.40			3217.53	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9787.16	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			1.19	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			1.19	#N/A
				2500.70			37054.98	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of July 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			6955.09	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	8.80			68.87	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			10881.15	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	72.90			553.43	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			3139.72	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.03	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	2.46			4.92	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	0.00			5.12	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	4.08			23.12	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	1.05			2.10	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	0.00			11.15	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			46.25	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			1.19	#N/A
701330-20-7	7	01330-20-7	Xylene	6.79			38.91	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	3.45			6.90	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	0.00			78.12	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	190.15			1885.70	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	289.58			3281.88	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9844.96	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			1.19	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			1.19	#N/A
				2538.13			37893.15	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of June 30, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			7475.22	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	7.79			64.35	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			11148.66	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	63.30			509.19	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			3139.72	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.01			0.04	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	2.46			2.46	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	0.00			5.12	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	6.16			19.04	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	1.05			1.05	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	1.19			12.34	Haps
700108-88-3	7	00108-88-3	Toluene	5.93			43.77	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	1.19			2.38	#N/A
701330-20-7	7	01330-20-7	Xylene	10.70			34.25	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	3.45			3.45	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	0.00			85.22	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	2.20			2.20	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	158.46			1869.86	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	257.40			3314.05	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9902.76	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	1.19			2.38	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	1.19			2.38	#N/A
				2478.17			38699.85	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of May 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			7995.35	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	6.94			60.84	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			11416.17	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	60.44			474.55	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	784.93			3139.72	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.03	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			0.00	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	2.56			5.12	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			12.88	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			0.00	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	4.98			12.34	Haps
700108-88-3	7	00108-88-3	Toluene	6.26			39.73	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			2.38	#N/A
701330-20-7	7	01330-20-7	Xylene	4.35			25.68	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			0.00	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	14.22			92.32	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			0.00	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77			1885.71	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			3378.40	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			9960.56	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			2.38	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			2.38	#N/A
				3193.38			39566.50	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of April 30. 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			8515.48	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	6.94			58.18	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			11683.68	Haps
600141-43-5	6	00141-43-5	Ethanolamine	168.63			337.26	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	240.90			481.80	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	24.09			48.18	#N/A
601330-20-7	6	01330-20-7	Xylene	60.44			442.77	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			2354.79	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	96.36			192.72	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.01			0.03	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			0.00	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	1.28			2.56	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			10.68	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			0.00	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	2.49			8.55	Haps
700108-88-3	7	00108-88-3	Toluene	6.26			35.36	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			3.57	#N/A
701330-20-7	7	01330-20-7	Xylene	3.90			23.46	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			0.00	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			85.20	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			0.00	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77			1933.25	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			3474.92	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			10018.36	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			5.77	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			3.57	#N/A
				2927.10			39720.14	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of March 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			9035.61	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	6.86			55.52	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			11951.19	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			168.63	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			240.90	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			24.09	#N/A
601330-20-7	6	01330-20-7	Xylene	57.07			410.99	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	1569.86			2354.79	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			96.36	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.02	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			0.00	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	0.00			1.28	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	4.08			8.48	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			0.00	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	0.00			7.25	Haps
700108-88-3	7	00108-88-3	Toluene	6.26			30.99	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			4.76	#N/A
701330-20-7	7	01330-20-7	Xylene	3.70			21.69	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			0.00	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			85.20	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			0.00	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77			1980.79	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			3571.44	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			10076.16	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			6.96	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			4.76	#N/A
				3961.43			40137.86	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of February 28, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			9555.74	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	5.07			52.94	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			12218.70	Haps
600141-43-5	6	00141-43-5	Ethanolamine	0.00			168.63	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	0.00			240.90	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	0.00			24.09	#N/A
601330-20-7	6	01330-20-7	Xylene	47.99			382.58	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	0.00			784.93	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	0.00			96.36	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.00			0.02	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			0.00	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	1.28			1.28	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			4.40	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			0.00	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	2.49			8.44	Haps
700108-88-3	7	00108-88-3	Toluene	4.37			26.62	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			5.95	#N/A
701330-20-7	7	01330-20-7	Xylene	2.95			20.12	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			0.00	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			85.20	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			0.00	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77			2028.33	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			3667.96	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			10133.96	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			10.35	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			5.95	#N/A
				2379.95			39523.45	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of January 31, 2003 and the twelve months then ended

Dept + CAS	Dept	CAS#	Tracked Substance	Month 1			12 month accumulative	Haps
500079-01-6	5	00079-01-6	Trichloroethylene	362.87			10075.87	Haps
600071-43-2	6	00071-43-2	Benzene	0.00			0.00	Haps
600100-41-4	6	00100-41-4	Ethyl Benzene	5.07			52.15	Haps
600108-88-3	6	00108-88-3	Toluene	795.30			12486.21	Haps
600141-43-5	6	00141-43-5	Ethanolamine	168.63			168.63	#N/A
600872-50-4	6	00872-50-4	N-Methyl-2-Pyrrolidone	240.90			240.90	#N/A
601310-58-3	6	01310-58-3	Potassium Hydroxide	24.09			24.09	#N/A
601330-20-7	6	01330-20-7	Xylene	47.99			363.25	Haps
607664-93-9	6	07664-93-9	Sulfuric Acid	784.93			784.93	#N/A
607697-37-2	6	07697-37-2	Nitric Acid	0.00			0.00	#N/A
664742-52-5	6	64742-52-5	Heavy Napthenic Petroleum	96.36			96.36	#N/A
668037-81-0	6	68037-81-0	Diphanyl Methyl	0.00			0.00	#N/A
699999-00-5	6	99999-00-5	Toluene Sulfonamide Mixture	0.00			0.00	#N/A
700050-00-0	7	00050-00-0	Formaldehyde	0.01			0.02	Haps
700067-63-0	7	00067-63-0	Isopropyl Alcohol	0.00			0.00	#N/A
700071-36-3	7	00071-36-3	Butyl Alcohol	0.00			0.00	#N/A
700078-83-1	7	00078-83-1	Isobutanol	0.00			0.00	#N/A
700078-93-3	7	00078-93-3	Methyl ethyl ketone	2.20			2.20	Haps
700100-41-4	7	00100-41-4	Ethyl Benzene	0.00			0.00	Haps
700108-10-1	7	00108-10-1	Methyl Isobutyl Ketone	0.00			5.95	Haps
700108-88-3	7	00108-88-3	Toluene	3.35			24.14	Haps
700123-86-4	7	00123-86-4	Butyl Acetate	0.00			5.95	#N/A
701330-20-7	7	01330-20-7	Xylene	1.82			18.11	Haps
708052-41-3	7	08052-41-3	C-66 Stoddard Solvent	0.00			0.00	#N/A
728182-81-2	7	28182-81-2	Hexane, 1,6-Diisocynate	7.10			85.20	#N/A
764742-89-8	7	64742-89-8	VM&P Naptha (Methyl Ethyl Ketone)	0.00			0.00	#N/A
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	158.46			2075.87	#N/A
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23			3764.48	#N/A
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33			10191.76	Haps
700110-43-0	7	00110-43-0	Methyl N-amyl Ketone	0.00			10.35	#N/A
700107-98-2	7	00107-98-2	1-Methoxyl-2-propanol	0.00			0.00	#N/A
601333-82-0	6	01333-82-0	Chromic Acid	0.00			0.00	#N/A
700108-65-6	7	00108-65-6	PGME Acetate	0.00			5.95	#N/A
				3720.64			40482.37	

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of December 31, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	4.74	5.00
601330-20-7	6	01330-20-7	Xylene	66.67	0.16	0.12	0.35	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	2.18	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.78	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	158.46	0.38	0.80	0.90	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.43	2.00
7various	7	various	Paints	23.40	0.06	0.24	0.14	0.56
Total VOC		Total VOC		2428.26			14.52	20.90
Total Haps		Total Haps	First three in list	1224.84			7.26	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.05	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.80	9,593.84	
		00079-01-6	Trichloroethylene		10.00	2.18	4,354.44	
		00100-41-4	Ethyl Benzene		10.00	0.04	84.01	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	23.49	
		00108-88-3	Toluene		10.00	4.76	9,529.95	
		01330-20-7	Xylene		10.00	0.38	754.51	
			All Haps - 12 month rolling total		25.00	12.17	24,340.29	
			Current Totals for HAPS	2,044.06 lbs				Haps
				1.02 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of November 30. 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	723.00	1.74	1.60	4.87	5.00
601330-20-7	6	01330-20-7	Xylene	38.39	0.09	0.12	0.33	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	2.44	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.81	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77	0.31	0.80	0.91	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.48	2.00
7various	7	various	Paints	20.40	0.05	0.24	0.14	0.56
Total VOC		Total VOC		2292.99			14.97	20.90
Total Haps		Total Haps	First three in list	1124.26			7.64	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.05	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.82	9,647.56	
		00079-01-6	Trichloroethylene		10.00	2.44	4,874.57	
		00100-41-4	Ethyl Benzene		10.00	0.04	80.42	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	21.00	
		00108-88-3	Toluene		10.00	4.90	9,794.98	
		01330-20-7	Xylene		10.00	0.36	713.36	
			All Haps - 12 month rolling total		25.00	12.57	25,131.94	
			Current Totals for HAPS	1,936.67 lbs				Haps
				0.97 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of October 31, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.04	5.00
601330-20-7	6	01330-20-7	Xylene	50.85	0.12	0.12	0.33	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	2.70	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.84	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77	0.31	0.80	0.93	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.53	2.00
7various	7	various	Paints	26.34	0.06	0.24	0.13	0.56
Total VOC		Total VOC		2383.69			15.49	20.90
Total Haps		Total Haps	First three in list	1209.02			8.06	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.04	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.85	9,703.16	
		00079-01-6	Trichloroethylene		10.00	2.70	5,394.70	
		00100-41-4	Ethyl Benzene		10.00	0.04	80.64	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	18.51	
		00108-88-3	Toluene		10.00	5.07	10,132.31	
		01330-20-7	Xylene		10.00	0.35	701.62	
			All Haps - 12 month rolling total		25.00	13.02	26,030.98	
			Current Totals for HAPS	2,025.66 lbs				Haps
				1.01 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of September 30. 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.17	5.00
601330-20-7	6	01330-20-7	Xylene	66.67	0.16	0.12	0.32	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	2.96	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.86	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	190.15	0.46	0.80	0.96	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	257.40	0.62	0.64	1.58	2.00
7various	7	various	Paints	24.25	0.06	0.24	0.12	0.56
Total VOC		Total VOC		2492.97			15.97	20.90
Total Haps		Total Haps	First three in list	1224.84			8.45	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.04	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.88	9,758.76	
		00079-01-6	Trichloroethylene		10.00	2.96	5,914.83	
		00100-41-4	Ethyl Benzene		10.00	0.04	79.00	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	14.83	
		00108-88-3	Toluene		10.00	5.20	10,397.34	
		01330-20-7	Xylene		10.00	0.34	676.23	
			All Haps - 12 month rolling total		25.00	13.42	26,841.03	
			Current Totals for HAPS	2,042.62 lbs				Haps
				1.02 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of August 31, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.31	5.00
601330-20-7	6	01330-20-7	Xylene	69.53	0.17	0.12	0.30	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	3.22	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.89	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	190.15	0.46	0.80	0.95	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	257.40	0.62	0.64	1.61	2.00
7various	7	various	Paints	20.40	0.05	0.24	0.12	0.56
Total VOC		Total VOC		2491.98			16.39	20.90
Total Haps		Total Haps	First three in list	1227.70			8.82	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.04	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.91	9,812.48	
		00079-01-6	Trichloroethylene		10.00	3.22	6,434.96	
		00100-41-4	Ethyl Benzene		10.00	0.04	75.41	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	13.64	
		00108-88-3	Toluene		10.00	5.33	10,662.37	
		01330-20-7	Xylene		10.00	0.32	635.22	
			All Haps - 12 month rolling total		25.00	13.82	27,634.12	
			Current Totals for HAPS	2,044.77 lbs				Haps
				1.02 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of July 31, 2003 and the twelve months then ended

	Specific Condition 1:			Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.44	5.00
601330-20-7	6	01330-20-7	Xylene	72.90	0.18	0.12	0.28	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	3.48	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.92	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	190.15	0.46	0.80	0.94	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	289.58	0.70	0.64	1.64	2.00
7various	7	various	Paints	22.20	0.05	0.24	0.11	0.56
Total VOC		Total VOC		2529.33			16.81	20.90
Total Haps		Total Haps	First three in list	1231.07			9.19	8.36

		HAPS Specific Limitations:		Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde	10.00	0.00	0.03	
		00071-43-2	Benzene	10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone	10.00	4.93	9,868.08	
		00079-01-6	Trichloroethylene	10.00	3.48	6,955.09	
		00100-41-4	Ethyl Benzene	10.00	0.04	70.97	
		00108-10-1	Methyl Isobutyl Ketone	10.00	0.01	11.15	
		00108-88-3	Toluene	10.00	5.46	10,927.40	
		01330-20-7	Xylene	10.00	0.30	592.34	
			All Haps - 12 month rolling total	25.00	14.21	28,425.06	
			Current Totals for HAPS	2,052.49 lbs			Haps
				1.03 Tons			

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of June 30, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.57	5.00
601330-20-7	6	01330-20-7	Xylene	63.30	0.15	0.12	0.25	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	3.74	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.95	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	158.46	0.38	0.80	0.93	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	257.40	0.62	0.64	1.66	2.00
7various	7	various	Paints	36.72	0.09	0.24	0.11	0.56
Total VOC		Total VOC		2470.38			17.22	20.90
Total Haps		Total Haps	First three in list	1221.47			9.57	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.04	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.96	9,921.80	
		00079-01-6	Trichloroethylene		10.00	3.74	7,475.22	
		00100-41-4	Ethyl Benzene		10.00	0.03	65.40	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	12.34	
		00108-88-3	Toluene		10.00	5.60	11,192.43	
		01330-20-7	Xylene		10.00	0.27	543.44	
			All Haps - 12 month rolling total		25.00	14.61	29,210.67	
			Current Totals for HAPS	2,050.63 lbs				Haps
				1.03 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of May 31, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.71	5.00
601330-20-7	6	01330-20-7	Xylene	60.44	0.15	0.12	0.24	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	4.00	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	4.98	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77	0.31	0.80	0.94	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.69	2.00
7various	7	various	Paints	34.57	0.08	0.24	0.10	0.56
Total VOC		Total VOC		2401.51			17.65	20.90
Total Haps		Total Haps	First three in list	1218.61			9.94	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.03	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	4.99	9,973.44	
		00079-01-6	Trichloroethylene		10.00	4.00	7,995.35	
		00100-41-4	Ethyl Benzene		10.00	0.03	60.84	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.01	12.34	
		00108-88-3	Toluene		10.00	5.73	11,455.90	
		01330-20-7	Xylene		10.00	0.25	500.23	
			All Haps - 12 month rolling total		25.00	15.00	29,998.13	
			Current Totals for HAPS	2,039.67 lbs				Haps
				1.02 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of April 30, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.84	5.00
601330-20-7	6	01330-20-7	Xylene	60.44	0.15	0.12	0.22	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	4.26	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	5.01	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77	0.31	0.80	0.97	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.74	2.00
7various	7	various	Paints	23.24	0.06	0.24	0.09	0.56
Total VOC		Total VOC		2390.18			18.12	20.90
Total Haps		Total Haps	First three in list	1218.61			10.32	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.03	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	5.01	10,029.04	
		00079-01-6	Trichloroethylene		10.00	4.26	8,515.48	
		00100-41-4	Ethyl Benzene		10.00	0.03	58.18	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.00	8.55	
		00108-88-3	Toluene		10.00	5.86	11,719.04	
		01330-20-7	Xylene		10.00	0.23	466.23	
			All Haps - 12 month rolling total		25.00	15.40	30,796.55	
			Current Totals for HAPS	2,036.74 lbs				Haps
				1.02 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of March 31. 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	5.98	5.00
601330-20-7	6	01330-20-7	Xylene	57.07	0.14	0.12	0.21	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	4.52	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	5.04	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77	0.31	0.80	0.99	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.79	2.00
7various	7	various	Paints	21.14	0.05	0.24	0.09	0.56
Total VOC		Total VOC		2384.71			18.60	20.90
Total Haps		Total Haps	First three in list	1215.24			10.70	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.02	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	5.04	10,084.64	
		00079-01-6	Trichloroethylene		10.00	4.52	9,035.61	
		00100-41-4	Ethyl Benzene		10.00	0.03	55.52	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.00	7.25	
		00108-88-3	Toluene		10.00	5.99	11,982.18	
		01330-20-7	Xylene		10.00	0.22	432.68	
			All Haps - 12 month rolling total		25.00	15.80	31,597.90	
			Current Totals for HAPS	2,032.47 lbs				Haps
				1.02 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of February 28, 2003 and the twelve months then ended

		Specific Condition 1:		Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	6.11	5.00
601330-20-7	6	01330-20-7	Xylene	47.99	0.12	0.12	0.19	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	4.78	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	5.07	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	126.77	0.31	0.80	1.01	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.83	2.00
7various	7	various	Paints	20.39	0.05	0.24	0.08	0.56
Total VOC		Total VOC		2374.88			19.08	20.90
Total Haps		Total Haps	First three in list	1206.16			11.08	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.02	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	5.07	10,138.36	
		00079-01-6	Trichloroethylene		10.00	4.78	9,555.74	
		00100-41-4	Ethyl Benzene		10.00	0.03	52.94	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.00	8.44	
		00108-88-3	Toluene		10.00	6.12	12,245.32	
		01330-20-7	Xylene		10.00	0.20	402.70	
			All Haps - 12 month rolling total		25.00	16.20	32,403.52	
			Current Totals for HAPS	2,019.57 lbs				Haps
				1.01 Tons				

Limco Airepair, Inc (LA)
Tracking Required By Air PermitAir Permit Tracking
Rolling Averages For 12 Months

6.00 Days
16.00 Hours
26.00 Days
416.00 Monthly Hrs

For the Month of January 31, 2003 and the twelve months then ended

	Specific Condition 1:			Pounds Per Month	Pounds Per Hour	Pounds Per Hour Limit	Tons per Year	Tons per Year Limits
600108-88-3	6	00108-88-3	Toluene	795.30	1.91	1.60	6.24	5.00
601330-20-7	6	01330-20-7	Xylene	47.99	0.12	0.12	0.18	0.36
500079-01-6	5	00079-01-6	Trichloroethylene	362.87	0.87	0.96	5.04	3.00
900078-93-3	9	00078-93-3	Methyl ethyl ketone	796.33	1.91	2.35	5.10	7.50
864742-88-7	8	64742-88-7	Medium Aliphatic Solvent Naptha	158.46	0.38	0.80	1.04	2.50
900067-63-0	9	00067-63-0	Isopropyl Alcohol	225.23	0.54	0.64	1.88	2.00
7various	7	various	Paints	14.48	0.04	0.24	0.08	0.56
Total VOC		Total VOC		2400.66			19.56	20.90
Total Haps		Total Haps	First three in list	1206.16			11.46	8.36

		HAPS Specific Limitations:			Limit Tons-per-Year	Tons Per Year	Pounds Year-To-Date	
		00050-00-0	Formaldehyde		10.00	0.00	0.02	
		00071-43-2	Benzene		10.00	0.00	0.00	
		00078-93-3	Methyl ethyl ketone		10.00	5.10	10,193.96	
		00079-01-6	Trichloroethylene		10.00	5.04	10,075.87	
		00100-41-4	Ethyl Benzene		10.00	0.03	52.15	
		00108-10-1	Methyl Isobutyl Ketone		10.00	0.00	5.95	
		00108-88-3	Toluene		10.00	6.26	12,510.35	
		01330-20-7	Xylene		10.00	0.19	381.36	
			All Haps - 12 month rolling total		25.00	16.61	33,219.66	
			Current Totals for HAPS	2,014.94 lbs				Haps
				1.01 Tons				

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of December 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1310.00	5.10	1,320.00	63
805 Resin	0.20	55.00	0.60	157.00	13
Trichloroethylene	1.22	360.00	0.20	520.00	65
MEK	5.06	1488.00	7.70	2,000.00	31
Mineral Spirits	1.02	285.00	1.15	300.00	53
Isopropyl Alcohol	1.43	445.00	2.00	520.00	29
Paints, various	0.29	86.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of November 30, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.08	1347.00	5.10	1,320.00	63
805 Resin	0.16	50.00	0.60	157.00	13
Trichloroethylene	1.22	403.00	0.20	520.00	65
MEK	5.06	1497.00	7.70	2,000.00	31
Mineral Spirits	0.82	287.50	1.15	300.00	53
Isopropyl Alcohol	1.43	460.00	2.00	520.00	29
Paints, various	0.29	81.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of October 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1394.00	5.10	1,320.00	63
805 Resin	0.16	46.00	0.60	157.00	13
Trichloroethylene	1.22	446.00	0.20	520.00	65
MEK	5.06	1506.00	7.70	2,000.00	31
Mineral Spirits	0.82	295.00	1.15	300.00	53
Isopropyl Alcohol	1.43	475.00	2.00	520.00	29
Paints, various	0.29	76.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of September 30, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1431.00	5.10	1,320.00	63
805 Resin	0.20	42.00	0.60	157.00	13
Trichloroethylene	1.22	489.00	0.20	520.00	65
MEK	5.06	1515.00	7.70	2,000.00	31
Mineral Spirits	1.22	302.50	1.15	300.00	53
Isopropyl Alcohol	1.63	490.00	2.00	520.00	29
Paints, various	0.24	71.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of August 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1468.00	5.10	1,320.00	63
805 Resin	0.16	37.00	0.60	157.00	13
Trichloroethylene	1.22	532.00	0.20	520.00	65
MEK	5.06	1524.00	7.70	2,000.00	31
Mineral Spirits	1.22	300.00	1.15	300.00	53
Isopropyl Alcohol	1.63	500.00	2.00	520.00	29
Paints, various	0.29	67.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of July 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1505.00	5.10	1,320.00	63
805 Resin	0.20	33.00	0.60	157.00	13
Trichloroethylene	1.22	575.00	0.20	520.00	65
MEK	5.06	1533.00	7.70	2,000.00	31
Mineral Spirits	1.22	297.50	1.15	300.00	53
Isopropyl Alcohol	1.84	510.00	2.00	520.00	29
Paints, various	0.29	62.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of June 30, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1542.00	5.10	1,320.00	63
805 Resin	0.16	28.00	0.60	157.00	13
Trichloroethylene	1.22	618.00	0.20	520.00	65
MEK	5.06	1542.00	7.70	2,000.00	31
Mineral Spirits	1.02	295.00	1.15	300.00	53
Isopropyl Alcohol	1.63	515.00	2.00	520.00	29
Paints, various	0.45	59.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of May 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1579.00	5.10	1,320.00	63
805 Resin	0.20	24.00	0.60	157.00	13
Trichloroethylene	1.22	661.00	0.20	520.00	65
MEK	5.06	1551.00	7.70	2,000.00	31
Mineral Spirits	0.82	297.50	1.15	300.00	53
Isopropyl Alcohol	1.43	525.00	2.00	520.00	29
Paints, various	0.37	51.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of April 30, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1616.00	5.10	1,320.00	63
805 Resin	0.20	19.00	0.60	157.00	13
Trichloroethylene	1.22	704.00	0.20	520.00	65
MEK	5.06	1560.00	7.70	2,000.00	31
Mineral Spirits	0.82	305.00	1.15	300.00	53
Isopropyl Alcohol	1.43	540.00	2.00	520.00	29
Paints, various	0.33	46.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of March 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1653.00	5.10	1,320.00	63
805 Resin	0.16	14.00	0.60	157.00	13
Trichloroethylene	1.22	747.00	0.20	520.00	65
MEK	5.06	1569.00	7.70	2,000.00	31
Mineral Spirits	0.82	312.50	1.15	300.00	53
Isopropyl Alcohol	1.43	555.00	2.00	520.00	29
Paints, various	0.24	41.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of February 28, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1690.00	5.10	1,320.00	63
805 Resin	0.20	10.00	0.60	157.00	13
Trichloroethylene	1.22	790.00	0.20	520.00	65
MEK	5.06	1578.00	7.70	2,000.00	31
Mineral Spints	0.82	320.00	1.15	300.00	53
Isopropyl Alcohol	1.43	570.00	2.00	520.00	29
Paints, various	0.24	39.00	0.31	80.00	7

Limco Airepair, Inc (LA)

Compliance with Table No. 2 of Permit

For the Month of January 31, 2003 and the twelve months then ended

Materials	GPD	GPY	GPD Limit	GPY Limit	Account
Toluene	4.49	1727.00	5.10	1,320.00	63
805 Resin	0.20	5.00	0.60	157.00	13
Trichloroethylene	1.22	833.00	0.20	520.00	65
MEK	5.06	1587.00	7.70	2,000.00	31
Mineral Spirits	1.02	327.50	1.15	300.00	53
Isopropyl Alcohol	1.43	585.00	2.00	520.00	29
Paints, various	0.20	35.00	0.31	80.00	7

PARKER + AMCHEM

HENKEL CORPORATION
32100 Stephenson Hwy
Madison Heights, Michigan 48071

MATERIAL SAFETY DATA SHEET

DATE: 06/09/94

234115

I. MATERIAL IDENTIFICATION

PRODUCT TRADE NAME: ALODINE® 1200

TECHNICAL CONTACT: Regulatory Affairs Department
TELEPHONE NUMBER: (810) 583-9300 EMERGENCY NUMBER: (800) 424-9300

II. HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	TLV/ACGIH	PEL/OSHA	% Weig
Sodium Fluoborate	13755-29-8	**	**	30 - 6(
*Chromic Acid, Dry	01333-82-0	See below	See below	20 - 5(
Potassium Fluozirconate	16923-95-8	See below	See below	5 - 1:
Potassium Ferricyanide	13746-66-2	None	None	10 - 3(

* Refer to Section XII
**TLV/PEL = 2.5 mg/m^3 for fluorides, as F.

Chromic Acid: TLV = 0.5 m/m^3
PEL = C 0.1 mg/m^3

Potassium Fluozirconate: TLV = 2.5 mg/m^3 for F.
5 mg/m^3 for Zr, STEL = 10 mg/m^3

PEL = 2.5 mg/m^3 for F.
5 mg/m^3 for Zr, STEL = 10 mg/m^3

EMERGENCY OVERVIEW: Orange powder. Contact causes eye and skin burns.
Carcinogen - contains chromic acid.

III. PHYSICAL PROPERTIES

APPEARANCE & ODOR: Orange powder; bland odor.
SPECIFIC GRAVITY: N/A
BOILING POINT F (C): N/A (N/A)
EVAPORATION RATE: N/A

Continued

pH:	N/A
VAPOR DENSITY (AIR = 1):	N/A
SOLUBILITY IN WATER:	Appreciable
VAPOR PRESSURE:	N/D
VOC:	N/A

N/A = Not Applicable
N/D = Not Determined

IV. FIRE AND EXPLOSION HAZARDS

FLASH POINT F (C): N/A (N/A) METHOD USED: N/A
EXTINGUISHING MEDIA:
As required to extinguish surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:
Wear positive pressure self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS:
Clothing contaminated with the chemical is dangerously flammable. Immediately remove and rinse thoroughly with water. Contact with combustible material may cause fire. Under conditions of extreme heat and fire potassium ferricyanide may emit toxic cyanide fumes.

V. REACTIVITY DATA

STABILITY:
Stable

CONDITIONS TO AVOID:
None Expected.

INCOMPATIBILITY (MATERIALS TO AVOID):
Organic materials, paint thinners or reducing agents.

Keep separate from alkalies.
HAZARDOUS DECOMPOSITION:
Thermal decomposition may produce hydrogen fluoride.
May form hydrocyanic gas.

HAZARDOUS POLYMERIZATION: Will Not Occur

VI. HEALTH HAZARD INFORMATION

Continued

EYES:
Eye contact may result in loss of vision with severe burns.

SKIN CONTACT:
Chromic acid may be absorbed through skin, especially if skin is damaged. Fatal kidney damage was reported in a person who evidently absorbed chromium trioxide into the body.

Contact with skin can cause burns.

SKIN ABSORPTION:
Please refer to Skin Contact.

INHALATION:
Inhalation of dust can cause injury (burns) to the entire respiratory tract.

INGESTION:
Can result in gastrointestinal damage; burns of the digestive tract. Chromic acid is considered very toxic. (As sodium dichromate, oral-rat LD50: 51.10 +/- 5.93 mg/kg.)

CHRONIC EFFECTS:
Prolonged or repeated skin contact may cause "chrome sores". Long-term exposure can cause liver damage, kidney damage and dermatitis. Prolonged or repeated inhalation of mist may cause ulceration and performation of the nasal septum. Contains fluorides. Exposure to fluorides over years may cause fluorosis.

MEDICAL CONDITIONS AGGRAVATED:
Persons with a history of asthma, allergies or known sensitizations to chromic acid or chromates.

OTHER:
POSSIBLE CANCER HAZARD: There is laboratory evidence that aqueous sodium dichromate administered directly into the lung, at the highest tolorated dose, over the lifetime of rats, causes a significantly increased incidence of lung cancer. It is expected that if chromic acid was tested in this manner as aqueous sodium dichromate, it would give similar response.
Reference: National Toxicology Program, Annual Report on Carcinogens.
International Agency for Research on Cancer.

VII. RECOMMENDED FIRST AID PROCEDURES

Continued

EYES:
Immediately flush eyes in a stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure thorough rinsing of all eye and lid tissue. GET MEDICAL ATTENTION.

SKIN:
Immediately remove and discard contaminated clothing and shoes. Flush skin thoroughly with water for at least 15 minutes. If irritation persists, GET MEDICAL ATTENTION.

INHALATION:
Remove to fresh air and remove contaminated clothing. If breathing is difficult, administer oxygen. If respiration stops, give mouth to mouth resuscitation. GET MEDICAL ATTENTION.

INGESTION:
DO NOT INDUCE VOMITING. Drink large quantities of water. If vomiting occurs, drink more water. GET MEDICAL ATTENTION. Never give anything by mouth to an unconscious person.

VIII. PERSONAL PROTECTION

VENTILATION:
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

RESPIRATORY PROTECTION:
MSHA/NIOSH dust filter mask or respirator if dusting occurs.

SKIN PROTECTION:
Chemical resistant gloves such as butyl rubber. Impervious protective clothing such as rubber aprons, boots should be used as necessary to prevent skin contact.

EYE PROTECTION:
Chemical goggles or face shield.

OTHER:
Eye wash facility and emergency shower should be in close proximity.

IX. SPILL PROCEDURES & WASTE DISPOSAL

Continued

SPILL PROCEDURES:

Wear respiratory protection.

Sweep up or otherwise collect and store in a suitable container.

WASTE TREATMENT:
This chemical contains chromium compounds and fluoride compounds. Waste treatment and neutralization may be required prior to discharge to a sewer.

Hazardous Waste Characteristic: EP Toxicity, Title 40, Code of Federal Regulations, 261.24, Hazardous Waste Number D007.

Dispose of in compliance with all applicable federal, state and local regulations.

X. STORAGE AND HANDLING PROCEDURES

SPECIAL PRECAUTIONS AND STORAGE:
Keep seperate from organic materials and reducing agents. Do not breathe dust or get in eyes or on skin.

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

DO NOT BREATHE DUST.
For industrial use only.
Contact with combustible material may cause fire.

XI. DOT SHIPPING INFORMATION

PROPER SHIPPING NAME:
Effective September 13, 1993, the current HM-181 shipping information is listed on the product label.

XII. ADDITIONAL REGULATORY INFORMATION

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA):
Section 302 Extremely Hazardous Substance: no

This product may be reportable under section 311/312 reporting requirements.

* This product contains (a) chemical(s) subject to the reporting requirements of section 313, Title III of SARA, part 372. See Section II for ingredient listing.

Continued

TOXIC SUBSTANCES CONTROL ACT (TSCA):
Components of this product are listed on the TSCA Inventory.

XIII. OTHER INFORMATION

HAZARD RANKING	NFPA	HMIS
HEALTH	3 High	3 Serious
FIRE	0 Insignificant	0 Minimal
REACTIVITY	1 Slight	1 Slight
OTHER	OX	

Warning: This product contains a chemical known to the State of California to cause cancer.

PREPARED BY: S. Whitney DATE: 06/09/94

Chemical Emergency Telephone 1-800-424-9300

Conditions: although the information presented herein is to the best of our knowledge true and accurate, no warranty or guarantee, express or implied, whether of merchantability, fitness for any particular purpose or otherwise, is made regarding the information or the performance of any product. In each case we strongly recommend that purchasers before using any product in full production make their individual test to verify to their own satisfaction whether the product is of acceptable quality and is suited for their specific purposes under their own manufacturing conditions. Further, no representative of ours has any authority to waive or change the foregoing provisions. However, subject to such provisions, our technical personnel are available to assist purchasers in modifying our products for use consistent with their needs and conditions in existence in their business. Nothing contained herein shall be construed as recommendation to use a product in infringement of any existing patent, and we assume no responsibility or liability for operations which do infringe any such patents. We assume no liablility for incidental, consequential or direct damages of any kind, no matter what the cause, including negligence. The above includes confidential and proprietary information of Parker + Amchem and is furnished to you for your use solely on products or process supplied by us to you and should not be otherwise used or disclosed.

1 PRODUCT AND COMPANY IDENTIFICATION

Turco Products Department
2000 Market Street

Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:
Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(303) 623-5716 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Product Information	800-848-0085	8:00 - 4:00 Eastern Time

Product Name	TURCO LIQUID SMUT GO N.C.
Product Synonym(s)	
Chemical Family	
Chemical Formula	N/A-mixture
Chemical Name	
EPA Reg Num	
Product Use	Liquid deoxidizer and desmutter

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Water	7732-18-5	60-70%	N
Ferric sulfate	10028-22-5	15-23%	Y
Nitric acid	7697-37-2	4-6%	Y
Sodium bifluoride	1333-83-1	<5%	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview
Dark - brown liquid; acid odor
DANGER!
CAUSES EYE, SKIN AND RESPIRATORY TRACT BURNS. MAY CAUSE BLINDNESS.
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS
CAN CAUSE LIVER AND KIDNEY DAMAGE

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be corrosive to skin and eyes. Overexposure to concentrated vapor may cause severe irritation to the eyes and respiratory tract including tearing, blurred vision, coughing, chest pains, shortness of breath, pulmonary edema (accumulation of fluid in the lungs) and, with severe or prolonged exposure, death. If swallowed, this material may cause burns of the mouth, throat and digestive tract and can cause stomach pain, nausea, vomiting, bloody vomit, diarrhea and, in severe cases, stomach bleeding and effects on cardiovascular circulation, central nervous system (CNS), liver and kidneys and death. Severe or repeated exposure may cause

liver and kidney damage or bone effects including joint pain, tooth erosion and discoloration. Medical conditions aggravated by exposure to this material include kidney or lung disease or limited respiratory capacity.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	N/A	
Flash Point	Nonflammable	Flash Point Method
Flammable Limits- Upper	N/A	
Lower	N/A	

Extinguishing Media

Use extinguishing media appropriate to surrounding fire conditions.

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Contact with metal can form hydrogen gas. Hydrogen is extremely flammable and can form explosive mixtures with air.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water. Keep concentrate and wash water from entering sewers or waterways. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

7 HANDLING AND STORAGE

Handling

Do not taste or swallow. Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Empty container may contain hazardous residues.

Storage

Store in a cool, dry place. Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		Value
Nitric acid		
ACGIH CEILING	-	10 mg/m3 4 ppm
ACGIH TWA	-	2 ppm 5.2 mg/m3
OSHA TWA PEL	-	2 ppm 5 mg/m3

-Only those components with exposure limits are printed in this section.
-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Dark - brown liquid; acid odor
pH	conc. 1.0
Specific Gravity	1.33
Vapor Pressure	(including water)@ 20 mm Hg
Vapor Density	<1
Melting Point	NE
Freezing Point	NE
Boiling Point	>200 F
Solubility In Water	Complete

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Hazardous polymerization is not known to occur.

Incompatibility

Contact with strong acids, strong alkalis or reactive metals.

Hazardous Decomposition Products

Heating may evolve corrosive and toxic fumes of hydrogen fluoride.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Ferric Sulfate

Single exposure (acute) studies indicate that this material is slightly toxic to rats if swallowed (LD50 1,480 mg/kg). Human case reports indicate that swallowing this material may cause iron poisoning. Symptoms of iron poisoning include digestive tract irritation, nausea, CNS depression, metabolic acidosis and cardiovascular symptoms in the early phase, and in the second phase, gastrointestinal perforation, circulatory collapse, cyanosis, and pulmonary edema may precede death. Long term ingestion of iron causes hemosiderosis, a condition marked by increased iron in the body tissues with possible fibrosis in the liver and spleen. This material has produced genetic changes in standard tests using bacterial cells but not in tests using animal cells.

Nitric Acid

Single exposure (acute) studies indicate that this material is slightly toxic to rats if inhaled (1-hr exposure, LC50 6.25 mg/l [2500 ppm]). Upon inhalation nitric acid was moderately toxic to rats (30-min. exposure, LC50 0.8 mg/l). Reports of workplace experience with this material have shown that it produces corrosive damage to the skin and eyes upon contact with concentrated vapor or liquid. Eye damage can be severe and permanent corneal scarring and visual impairment including blindness may occur. Inhalation of high concentration of the fume of this material has caused numerous fatalities. Generally, death is delayed several

11 TOXICOLOGICAL INFORMATION

days and results from acute pulmonary edema. Ingestion of 30-40 ml of concentrated this material has caused fatalities resulting from corrosion of the mouth, throat, and stomach. Workers exposed to vapor of this material have shown increased incidence of dental erosion and chronic bronchitis; however, these findings are confounded by concurrent exposure to other acids such as sulfuric acid. Studies with human volunteers exposed to 0.5 mg/m3 for four hours with moderate exercise did not show effects on pulmonary function or evidence of lung injury. No correlation between airborn levels of this material and reported respiratory symptoms among an asthmatic population was observed in a recent human study.

Application of concentrated material to over 25% of the skin area in rats caused increases in blood methemoglobin levels and levels of this material. Dogs exposed to 1% of this material by inhalation for four weeks showed pulmonary damage including inflammation and slight fibrosis of the airways and decreased pulmonary function. Exposure of rats to aerosol concentrations of 0.013-0.049 mg/l of this material for 375-650 days did not show adverse effects.

Sodium Bifluoride
Aqueous solutions of 1-3% of this material are moderately irritating to rabbit skin (3.0-4.17/8.0). A mixture of 70% of this material/30% sodium fluoride produced positive results in a mouse lymphoma assay.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

Ferric Sulfate
Materials of this type are slightly toxic to brown shrimp (96-hr LC50 33-100 mg/l) and practically non-toxic to European cockle (96-hr LC50 100-330 mg/l). This material is practically non-toxic to mosquitofish (96-hr LC50 133 mg/l).

Nitric Acid
Generally, dilute nitric acid is slightly to practically non-toxic to aquatic organisms. If spilled in concentrated volumes, acidification may occur and data from studies with rainbow trout and bluegill sunfish indicate that pH in the range of 3.5-4.0 causes lethality in approximately 50% of the adult organisms. This material is slightly toxic to freshwater invertebrates such as Daphnia magna (LC50 107 mg/l). It is also practically non-toxic to various saltwater invertebrates such as the starfish, pugge, shore crab and cockle (LC50 100-1000 mg/l).

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name	Corrosive liquid, acidic, inorganic, n.o.s.
DOT Technical Name	(Ferric sulfate, nitric acid)
DOT Hazard Class	8
UN Number	UN3264
DOT Packing Group	PG II
RQ	

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title IIII Rules (40 CFR Part 370)

Immediate (Acute) Health Y	Fire	N
Delayed (Chronic) Health Y	Reactive	N
	Sudden Release of Pressure	N

The components of this product are all on the TSCA inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Ferric sulfate	1000 LBS	
Sodium bifluoride	100 LBS	
Nitric acid	1000 LBS	1000
Water	NE	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 986 and 40 CFR Part 372. See Section 2

Nitric acid

SARA Title III, Section 302

This product does contain chemical(s), as indicated below, currently on the Extremly Hazardous Substance List, Section 302, SARA Title III. See Section 2 for further details regarding concentrations and registry numbers.

Nitric acid

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Ferric sulfate
Nitric acid
Sodium bifluoride

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Ferric sulfate
Nitric acid
Sodium bifluoride

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Ferric sulfate

Pennsylvania Environmental Hazard
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.
Nitric acid
Sodium bifluoride

Pennsylvania Right to Know
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.
Ferric sulfate
Nitric acid
Sodium bifluoride

16 OTHER INFORMATION

Revision Information

Revision Date	16 JUN 2000	Revision Number 5
Supercedes Revision Dated	19-APR-2000	

Revision Summary
The manufacturer has changed its name from Elf Atochem North America, Inc. to ATOFINA Chemicals, Inc.

Key
NE= Not Established NA= Not Applicable (R) = Registered Trademark

Open drums carefully to avoid spurting.

ATOFINA Chemicals, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of ATOFINA Chemicals, ATOFINA Chemicals expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Material Safety Data Sheet

Material Name: TURCO LIQUID SMUT-GO NC **ID: 239357**

Engineering Controls:

Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection:

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection:

Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Liquid	**Appearance:**	Dark-brown
Odor:	Acid	**Vapor Pressure:**	(including water)@ 20 mm Hg
Vapor Density:	<1	**Boiling Point:**	>212° F
Melting Point:	NE	**Specific Gravity:**	1.35
pH:	conc. 1.0	**Viscosity:**	
VOC:	< 1.0%	**Solubility Water:**	Complete
Percent Solids:	30-60%		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility:

Contact with strong acids, strong alkalis or reactive metals.

Decomposition Products:

Heating may evolve corrosive and toxic fumes of hydrogen fluoride.

Hazardous Polymerization:

Hazardous polymerization is not known to occur.

Material Safety Data Sheet

Material Name: TURCO LIQUID SMUT-GO NC **ID: 239357**

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Nitric acid (7697-37-2)

Inhalation LC50 Rat : 67 ppm(NO2)/4H

Component Carcinogenicity

Sodium bifluoride (1333-83-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen (as F) (related to Fluorides)

Chronic Toxicity

No information available for the product.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

Material Safety Data Sheet

Material Name: TURCO LIQUID SMUT-GO NC

ID: 239357

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Ferric sulfate (10028-22-5)

CERCLA: final RQ = 1000 pounds (454 kg)

Nitric acid (7697-37-2)

SARA 302: TPQ = 1000 pounds; RQ = 1000 pounds
SARA 313: form R reporting required for 1.0% de minimis concentration
CERCLA: final RQ = 1000 pounds (454 kg)

Sodium bifluoride (1333-83-1)

CERCLA: final RQ = 100 pounds (45.4 kg)

SARA 311/312: Acute: Y Chronic: Y Fire: N Pressure: N Reactive: N

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Ferric sulfate (*related to Iron salts (soluble)	10028-22-5	Yes	No	Yes	Yes*	Yes	Yes
Nitric acid	7697-37-2	Yes	Yes	Yes	Yes	Yes	Yes
Sodium bifluoride (*related to Fluorides)	1333-83-1	Yes	No	Yes	Yes*	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

Material Safety Data Sheet

Material Name: TURCO LIQUID SMUT-GO NC

ID: 239357

B: Component Analysis - InventoryComponent Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Ferric sulfate	10028-22-5	Yes	Yes	Yes
Nitric acid	7697-37-2	Yes	Yes	Yes
Sodium bifluoride	1333-83-1	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ferric sulfate	10028-22-5	1%; English Item 882; French Item 883 (related to Iron, water-soluble salts, n.o.s.)
Nitric acid	7697-37-2	1%; English Item 1146; French Item 111

*** Section 16 - Other Information ***

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Regulatory Affairs and Product Acceptance
Contact Phone: (248) 593-9300

1 PRODUCT AND COMPANY IDENTIFICATION

Turco Products Department
2000 Market Street

Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:
Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(303) 623-5716 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Product Information	800-848-0085	8:00 - 4:00 Eastern Time

Product Name	TURCO 5668
Product Synonym(s)	
Chemical Family	Organic
Chemical Formula	NA - Mixture
Chemical Name	
EPA Reg Num	
Product Use	Hot Tank Paint Stripper

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
N-Methyl-2-pyrrolidone	872-50-4	40-50%	Y
Ethanolamine	141-43-5	25-35%	Y
Severely hydrotreated heavy naphthenic petroleum distillates	64742-52-5	10-20%	Y
Toluene Sulfonamide Mixture	Proprietary	5-10%	Y
Potassium hydroxide	1310-58-3	<5%	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Communication Standard (29 CFR 1910.1200)

The components of this product are all on the TSCA inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview
Clear, to slightly, hazy, amber fluid
DANGER!
CAUSES EYE AND SKIN BURNS. MAY CAUSE BLINDNESS.
CAUSES RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED.
HARMFUL IF INHALED.

Potential Health Effects

N-Methyl-2-pyrrolidone

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, this material is considered to be slightly toxic if swallowed or inhaled, practically non-toxic if absorbed through skin, slightly to moderately irritating to skin and moderately irritating to eyes. This material

is rapidly absorbed through the skin and repeated or prolonged contact may cause redness, blistering and cracking of skin. Overexposure to vapors may cause slight eye and respiratory irritation. If swallowed, this material may result in irritation of the digestive tract, nausea and vomiting.

Ethanolamine

Skin contact and inhalation are expected to be the primary routes of occupational exposure to this material. Direct contact of liquid with eyes or skin may cause severe irritation or corrosive chemical burns. Repeated or prolonged contact may result in absorption of the material and systemic effects, such as liver or kidney injury. Overexposure to vapors and mists has produced eye and respiratory tract irritation, chest pain and coughing. Other symptoms of overexposure reported following chemical spills include headache, nausea, dizziness, and upper extremity numbness. Accidental swallowing of this material may cause burns of the mouth, throat, esophagus and stomach and symptoms of gastrointestinal distress. It is considered, on the basis of single exposure animal tests, to be slightly to moderately toxic by the inhalation route. In studies with animals that have been exposed by inhalation or oral dosing of high amounts, liver and kidney changes have been observed. Due to the potential for this material to cause injury to these organs, workers with liver or kidney disease or diminished function of these organs should have limited exposure to this material.

Severely hydrotreated heavy naphthenic petroleum distillates

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests on similar materials, it is anticipated to be practically non-toxic if swallowed, no more than slightly toxic if absorbed through skin, and slightly irritating to eyes and skin. Hydrocarbons of this type may remove oils from the skin and because of this drying nature, produce moderate irritation, redness, swelling and rash (dermatitis) with repeated or prolonged contact. Mineral oils generally have a low vapor pressure at room temperature and are not expected to present a significant inhalation hazard under ambient conditions. However, precautions should be taken to limit aerosolization or misting of this material, as repeated exposure to high concentrations of mineral oil mist has been reported to pose some risk of lipoid pneumonia.

Potassium hydroxide

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. This material is corrosive to all body tissues with which it comes in contact. Contact with liquid to skin rapidly causes severe skin burns. Some delay between contact and irritant sensation may occur. Contact of liquid with eyes may cause severe burns with tissue damage and possible blindness. Inhalation exposure of mists of this material may cause eye and upper respiratory tract irritation and, in severe cases, delayed pulmonary edema and death. Repeated overexposure by inhalation is usually self-limited by sneezing, coughing and respiratory discomfort; however, lesions of the nasal septum have been reported from workplace exposure. This material is considered, based on single exposure (acute) tests to be moderately toxic after ingestion. Accidental ingestion may cause severe burns and tissue perforation of the mucous membranes of the mouth, throat, esophagus and stomach.

4 FIRST AID MEASURES

IF IN EYES, Speed is essential. immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IF ON SKIN, Speed is essential. immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated shoes.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NE		
Flash Point	201 deg F (90 Deg. C)	Flash Point Method	PMCC
Flammable Limits- Upper	NE		
Lower	NE		

Extinguishing Media

Use carbon dioxide or dry chemical

Fire Fighting Instructions

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Closed containers may explode when heated or contents contaminated with water.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spilled liquid with sand or earth. Clean up spill immediately, observing precautions in the Personal Protection section of MSDS. Avoid runoff into storm sewers and ditches which lead to waterways.

7 HANDLING AND STORAGE

Handling

Do not breathe mist. Do not breathe vapor. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Keep container tightly closed. Empty container may contain hazardous residues. Keep away from heat, sparks and flames. Use explosion proof equipment.

Storage

Store in a cool, dry place. Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eye / Face Protection

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Skin Protection

Use Neoprene or Nitrile gloves should be worn when handling this material. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash skin thoroughly after handling.

Respiratory Protection

Do not breathe mist. Do not breathe vapor. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		Value
Potassium hydroxide		
ACGIH STEL	-	2 mg/m3
Ethanolamine		
ACGIH CEILING	-	15 mg/m3 6 ppm
ACGIH TWA	-	3 ppm 7.5 mg/m3
OSHA TWA PEL	-	3 ppm 6 mg/m3
Severely hydrotreated heavy naphthenic petroleum distillates		
ACGIH STEL	-As oil mist, mineral	10 mg/m3
ACGIH TWA	-As oil mist, mineral	5 mg/m3
N-Methyl-2-pyrrolidone		
WEEL TWA	-	10 ppm 40 mg/m3
WEEL TWA Skin Designator	-	Y

-Only those components with exposure limits are printed in this section.
-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Clear, to slightly, hazy, amber fluid
pH	
Specific Gravity	1.05
Vapor Pressure	NE
Vapor Density	>1.0
Melting Point	NA
Freezing Point	NE
Boiling Point	>200 deg F
Solubility In Water	Soluble
Percent Volatile	NE

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under specified conditions or storage, shipment and/or use. See HANDLING AND STORAGE section of this MSDS for specified conditions.

Hazardous Polymerization

Hazardous polymerization is not known to occur.

Incompatibility

Strong acids, strong oxidizers, sparks, and ignition sources

Hazardous Decomposition Products

Thermal - oxides of carbon, nitrogen and sulfur compounds

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

N-Methyl-2-pyrrolidone

Single exposure (acute) studies indicate that this material is slightly toxic to rats if swallowed (LD50 3,900-4,300 mg/kg) or inhaled (4-hr exposure, ALC 1.7 mg/l), practically non-toxic to rabbits if absorbed through skin (LD50 4,000-8,000 mg/kg), slightly to moderately irritating to rabbit skin, and moderately irritating to rabbit eyes. No skin allergy was observed in humans or guinea pigs following repeated exposure to this material; however, workplace experience indicates that repeated or prolonged contact may cause severe dermatitis including blistering, cracking, or swelling of skin. Headaches and eye irritation have been reported in workers exposed to low levels (0.7 ppm) of this material while levels from 49-83 ppm were extremely irritating.

Repeated oral administration to rats and dogs produced no adverse effects while rabbits showed effects on the heart, liver, kidneys and gastrointestinal tract. Repeated administration of this material in the feed of mice showed kidney effects, while rats showed decreased body weight and weight gain and blood effects. Effects on bone marrow, testes and thymus were also seen but were considered to be secondary to nutritional and body weight effects. Repeated inhalation by rats produced focal pneumonia, bone marrow hyperplasia, degeneration of spleen, thymus and testes, and increases in white blood cells. Long-term exposure of rats to vapor resulted in reduced body weight at the high dose level, but no systemic or carcinogenic effects. No

11 TOXICOLOGICAL INFORMATION

carcinogenic effects were observed in dermal initiation promotion studies or by repeated subcutaneous injection to mice. Birth defects were observed in the offspring of rats exposed by inhalation and skin application during pregnancy, but only at levels which produced adverse effects on the mothers. Oral administration to pregnant rats, mice and rabbits produced developmental effects and birth defects on the offspring, but only at maternally toxic doses. No reproductive effects were observed in rats exposed prior to and during mating and during pregnancy. This material generally produced no genetic changes in standard tests using bacterial and animal cells. It has produced genetic changes in yeast. Metabolism studies have shown that this material is readily excreted in the urine with 75% eliminated within 12 hours.

Ethanolamine
Single exposure (acute) studies indicate that this material is slightly toxic if swallowed (rat LD50 1,100-3,300 mg/kg) or absorbed through skin (rat LD50 2,460 mg/kg), no more than slightly toxic if inhaled (guinea pig 1-hr LC50 0.58 mg/l; cat and dog 7-hr LC50 >2.47 mg/l, no lethalities occurred), and corrosive to rabbit eyes and skin. Repeated application in controlled skin contact studies with human volunteers has shown this material to be a cumulative skin irritant, but did not show evidence for allergic skin reactions. This material did not produce allergic skin reactions in guinea pigs. Acute inhalation exposure of mice, rats, rabbits and guinea pigs at up to 1250 ppm caused damage to the liver, kidney and lungs. Continuous 24-hour exposure of dogs, guinea pigs and rats to 6 ppm of this material resulted in skin irritation and animals exposed at up to 102 ppm showed inflammation of the lungs, liver and kidney damage, and changes in blood parameters. Repeated skin application of this material in rats at 4 mg/kg/day produced effects in the liver, heart and lung. Subchronic administration of this material in the diet (up to 1280 mg/kg/day) caused damage to liver and kidneys in rats. No birth defects were noted in rats given skin applications of this material during pregnancy, even at levels (225 mg/kg/day) which produced adverse effects in the mothers (decreased weight gain and skin irritation) and delayed development of offspring. Birth defects and embryolethality were observed in rats given this material orally during pregnancy at doses of 50-500 mg/kg/day. No adverse treatment-related effects on reproductive performance were observed in male and female rats given this material at dietary concentrations up to 7500 ppm. This material has generally produced no genetic changes in standard tests using bacterial or animal cells.

Severely hydrotreated heavy naphthenic petroleum distillates
Single exposure (acute) studies indicate that this material is practically non-toxic if swallowed (rabbit LD50 >5000 mg/kg), no more than slightly toxic if absorbed through skin (rabbit LD50 >3000 mg/kg) and slightly irritating to rabbit eyes and skin. No skin allergy was observed in guinea pigs following repeated exposure. In one study, chronic dermal application of this material to mice did not result in an increase in skin tumors. Other studies have shown an increase in skin tumor formation from application of this material. This material has generally not produced genetic changes in standard bacterial and mammalian cell assays.

Potassium Hydroxide
Single exposure (acute) studies indicate that this material is moderately toxic to rats if swallowed (LD50 333 mg/kg) and corrosive to rabbit skin. Solutions of this material are highly alkaline and are able to rapidly dissolve and destroy tissue upon contact. There are numerous reports of accidental or suicidal ingestion of this material. Death results from shock, perforation of the esophagus, pneumonitis and infection. There are also reports of accidental splashes to the eyes and skin causing corrosive tissue damage. Repeated overexposure by inhalation is usually self-limited by sneezing, coughing and respiratory discomfort; however, lesions of the nasal septum have been reported from workplace exposure. Chronic application of a solution of this material to the skin of mice has resulted in increased skin tumor formation.

12 ECOLOGICAL INFORMATION

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

N-Methyl-2-pyrrolidone
This material is highly toxic to Daphnia magna (LC50 10-100 ug/l) and slightly toxic to fathead minnow (LC50 65.6 mg/l).

Ethanolamine
This material is generally non-toxic to fish such as rainbow trout, bluegill, goldfish, and fathead minnow with LC50 values greater than 100 mg/l. It has also been shown to be non-toxic to invertebrates such as Daphnia magna and blue green algae with LC50 values of 250 mg/l or 6300 mg/l, respectively. This material has a low octanol/water partition coefficient and would not be expected to bioaccumulate in aquatic species or food chains.

Potassium Hydroxide
This material is sightly toxic to gambusia (LC50 80 mg/l).

Chemical Fate Information

Data on this material and/or its components are summarized below.

N-Methyl-2-pyrrolidone
Biodegradation studies in semi-continuous activated sludge testing and in a river die-away test show that this material is readily biodegradable with 95% degradation in 1-2 weeks.

Ethanolamine
This material is readily degraded biologically, showing high theoretical utilization in both chemical and biological oxidation demand testing.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations.

14 TRANSPORT INFORMATION

DOT Name	Corrosive Liquid, Basic, Organic, NOS
DOT Technical Name	(Potassium Hydroxide)
DOT Hazard Class	8
UN Number	3267
DOT Packing Group	PG III
RQ	

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire N
Delayed (Chronic) Health	Y	Reactive Y
		Sudden Release of Pressure N

The components of this product are all on the TSCA inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
Potassium hydroxide	1000 LBS	
Ethanolamine	NE	
Severely hydrotreated heavy naphthenic petroleum distillates	NE	
N-Methyl-2-pyrrolidone	NE	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 986 and 40 CFR Part 372. See Section 2

N-Methyl-2-pyrrolidone

Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Ethanolamine
N-Methyl-2-pyrrolidone
Potassium hydroxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Ethanolamine
Potassium hydroxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Potassium hydroxide

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Ethanolamine
N-Methyl-2-pyrrolidone
Potassium hydroxide

16 OTHER INFORMATION

Revision Information

Revision Date	16 JUN 2000	Revision Number 3
Supercedes Revision Dated	13-JUL-1999	

Revision Summary

The manufacturer has changed its name from Elf Atochem North America, Inc. to ATOFINA Chemicals, Inc.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

ATOFINA Chemicals, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of ATOFINA Chemicals, ATOFINA Chemicals expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

1 PRODUCT AND COMPANY IDENTIFICATION

Turco Products Department
2000 Market Street

Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:
Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(303) 623-5716 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Product Information	800-848-0085	8:00 - 4:00 Eastern Time

Product Name	Turco 5668 ADD #1
Product Synonym(s)	
Chemical Family	Organic
Chemical Formula	NA-mixture
Chemical Name	
EPA Reg Num	
Product Use	Seal additive for Turco 5668

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Distillates (petroleum), hydrotreated middle	64742-46-7	100%	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview
Straw colored, thin liquid
CAUTION!
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.
MAY CAUSE EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
PROLONGED EXPOSURE TO HIGH VAPOR CONCENTRATIONS CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION INCLUDING HEADACHE, DIZZINESS, WEAKNESS, CONFUSION, NAUSEA, AND LOSS OF CONSCIOUSNESS.

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Hydrocarbons of this type may remove oils from the skin and, because of their drying nature, produce irritation, redness and rash (dermatitis) with repeated or prolonged contact. Hydrocarbons of this type may also be slightly irritating to the eyes and respiratory tract and may produce anesthetic-like effects. Overexposure to high atmospheric concentrations of hydrocarbon vapors may result in central nervous system (CNS) depression, with possible effects such as headache, dizziness, weakness, confusion, nausea, unconsciousness and, in extreme cases, death. Precautions should be taken to limit aerosolization or misting of this material, as repeated exposure to high concentrations of

mineral oil mist may cause lipoid pneumonia. While swallowing of this material is unlikely in the industrial setting, if swallowed there may be severe lung injury if the material is drawn into the lungs during swallowing or during spontaneous or induced vomiting after swallowing. Symptoms of injury may include increased breathing and heart rate, coughing and related signs of respiratory distress.

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN, immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	> 500 F		
Flash Point	> 420 F	Flash Point Method	COC
Flammable Limits- Upper	NE		
Lower	NE		

Extinguishing Media

Use carbon dioxide, dry chemical or foam

Fire Fighting Instructions

Use water spray to cool containers exposed to fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Container may explode if heated due to resulting pressure rise.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water. Keep concentrate and wash water from entering sewers or waterways. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

7 HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat, sparks and flame.

Storage

Store in a cool, dry place. Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Eye / Face Protection

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment available.

Skin Protection

Neoprene or Nitrile gloves should be worn when handling this material. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Wash contaminated clothing and clean protective equipment before reuse. Rinse contaminated skin promptly. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing vapor or mist. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

The components of this product have no established Airborne Exposure Guidelines

-Only those components with exposure limits are printed in this section.
-Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
-ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Straw colored, thin liquid
pH	
Specific Gravity	0.90
Vapor Pressure	NE
Vapor Density	< 1.0
Melting Point	NA
Freezing Point	< 30 F
Boiling Point	> 400 F
Solubility In Water	Negligible

10 STABILITY AND REACTIVITY

Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization

Hazardous polymerization is not known to occur.

Incompatibility

Avoid contact with strong acids, alkalis, and oxidizers. Avoid flames.

Hazardous Decomposition Products

Oxides of carbon.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Data on this material and/or its components are summarized below.

Distillates (petroleum), hydrotreated middle

Early mortality, amyloidosis (infiltration of the liver, spleen, kidneys and other tissues with a starchlike substance) and irritation were observed in mice dermally treated with this material for 177 days. Lifetime application of this material to the skin of mice produced tumors in 5 of 50 animals. Petroleum distillates of this type have produced genetic changes in a standard test using bacteria; but not in animals.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

No data are available.

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name	Not regulated by the DOT
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title IIII Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

The components of this product are all on the TSCA inventory list.

Ingredient Related Regulatory Information:

16 OTHER INFORMATION

Revision Information

Revision Date	12 JUL 2000	Revision Number 3
Supercedes Revision Dated	16-JUN-2000	

Revision Summary
Revised all sections

Key
NE= Not Established NA= Not Applicable (R) = Registered Trademark

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM: April 15, 1999

TO: Files

THROUGH: Rhonda Jeffries, Environmental Specialist Supervisor

FROM: Roxanne Roberts, Sr. Environmental Specialist

SUBJECT: **Limco Airepair, Inc. & Aeroduct**
5304 South Lawton Ave.
Tulsa, Oklahoma 74107

TEAM ID# 02151
AIRS New

Limco Airepair, Inc. & Aeroduct (LIMCO) operates a Federal Aviation Administration Certified ~~Flight Service~~ REPAIR Station, Certificate #CZ2R760. Three main divisions and a small minor division operate inside the facility. Some welding areas, the cleaning/alodine lines, paint booth, testing areas, and hazardous waste storage areas are shared by all the divisions. The SIC code for LIMCO's operation is 3728, Aircraft Parts and Equipment. The Airepair Division repairs aviation heat exhangers. Minor repairs primarily involve testing, flushing and cleaning operations. Major repairs involve testing, recoring and welding operations. The Aeroduct Division repairs aircraft ventilation duct systems with similar major and minor job classifications. DUCTS

FACILITY DESCRIPTION

Limco and Airoduct and Aerepair merged TO form a manufacturing and repair facility for aircraft cooling units. Limco represents the manufacturing side. Their clients include major airlines, Bell Helicopters, American Airlines and Commercial and Federal aviation facilities. The company is owned by TAT Industries by Shaul Mene of Televive, Israel. Bob Johnson is the CFO in the Tulsa office. Mr. Frank McGurer is the new facility manager having been in the position since January, 1999. The previous facility manager is said to have quit. A complaint was lodged against Limco in January, 1999 and Mr. John Smith of the DEQ Hazardous Waste division performed an inspection. During that inspection he suggested to Mr. Johnson that LIMCO should submit information to the air quality division (AQD) for an applicability PERMIT

determination (AD). As of April 7, 1999 an AD had not been received by the AQD and I inspected the facility. The facility operates from 7:00 am to 3:30 pm with a nightshift consisting of a skeleton crew performing primarily prep work and grinding. The facility consists of various areas consisting of repair or manufacturing operations.

FACILITY INSPECTION

On April 7, 1999 an Air Quality compliance inspection was conducted by Roxanne Roberts, Sr. Environmental Specialist, for the division. Mr. Frank McGurer, Facility Manager, represented LIMCO. I arrived at the facility at approximately 2:05 pm, entered the facility and presented proper identification. I requested to see Mr. Johnson, however he was not in. Mr. McGurer was summoned and arrived in Mr. Johnson's place. I conducted a brief entrance interview with Mr. McGurer and explained the nature of my visit. I requested to inspect the entire facility. The following represents observations and comments made during the inspection:

We proceeded through the shop area which I was told was for manufacturing and repair. I was told there are two welding areas. The first welding area consisted of five welding machines and four welders. There is 1 CNC Mill Machine in this area and an Electric Discharge Machine (EDM) which cuts with electric arc fluid (EDM) which I was told is similar to kerosene. There were testing tanks filled with water to test the cooling units for leaks. A vacuum furnace used for drying the parts after leak testing discharges moisture outside the furnace.

I inspected the Fin room which is an area with two machines that creates fins for the cooling units by feeding raw stock of aluminum, stainless and copper through a machine that stamps them. This creates the various types of fins used in the cooling units.

We then proceeded to the stacking room where all parts from the clean line are located. Personnel wearing white gloves assemble the fins and various parts fabricating the core which is then sent to a bench mechanic.

The final stacked pieces are heated in an electric vacuum furnace to 2,160 degrees F for stainless and 1,100 degrees F for aluminum which solders all the parts together. There is a cooling tower associated with the furnace to cool it through water jackets. Once the core unit leaves this area it goes to another welding unit for finishing touches such as end caps, etc.

Some of the sheet metal is formed by an extremely large press called a Cincinnati Hydroform 20-10-10. This machine presses the sheet metal at 8,000 lbs. of pressure which effectively cuts out thin slivers of sheet metal. The pieces are used in the final product. This equipment is located in the wastewater treatment room and hazardous waste and unused chemical storage area. Drums observed in the hazardous and unused chemical storage area were EDM fluid – Vacmul 3A honing oil, DTE 26 – hydraulic oil used on the big press, Alodine 22 Toner, Caustic Soda, Sulfuric Acid (both used in wastewater treatment), Isoprep 44, Toluene and Kerosene.

I inspected the testing areas where cores are tested under normal conditions and increased temperatures. Oil is heated to 200-275 degrees F, the units are covered, flushed and leak tested.

The clean line operation consists of various acid and rinse tanks. There appeared to be 2 Alodine tanks labeled 1200 (which was stated to be stronger) and 600 (which is seldom used), 3 acid tanks (2 nitric and 1 HF/Nitric mix), 2 caustic tanks, 7 water rinse tanks, 1 pH rinse tank containing deionized water, 1 tank labeled "Turco" which was to remove the remainder of the unwanted constituents off and was compared to paint stripper, and 1 pH boiling tank which was to boil the salts off, then silver nitrate is dropped in. This line was not operational during the inspection.

The vapor degreaser was not operating during the inspection. The manager of the area, David Custer, was not present. There are several closed red tubs setting around which was said to contain MEK used to soak parts. One open container was observed which Mr. McGurer stated was mineral spirits. There was no original chemical container present so this could not be confirmed. The degreaser does have a lid installed however, it is a top loaded machine and the lid is very bulky and would not be easily removed and replaced throughout the day. There are safety switches on the outside of the equipment. There is a hand spray mechanism to spray parts in the tank, and the vapor degreaser has a refrigerated chiller utilizing natural water. The equipment is a batch vapor machine with no available specification data available. The actual dip area is estimated to be 20x48x48. There are none of the required instructions placarded on the equipment. The vapor degreaser contains TCE and should be inspected again (as well as the clean line) at a later date.

There are 4 heat treating ovens stated to be electrically operated. Their purpose is to relieve the internal stress put on parts from assembly or repair, ie. if one part is heated during the process the other portions of the whole unit are not under uniform stress. As they are heated uniformly and cooled uniformly stress is relieved.

I inspected the paint area as certain cores are provided coatings. The paint booth was of the three sided open type, and I was told the filters are changed when there is not enough flow to paint well. There are no pressure gauges with which to monitor pressure drop across the filters. The filters did not appear to be in good condition during the inspection. I observed a total of 6 open containers, ie. 2 open containers of Toluene, a drum of paint waste with no funnel cap, and a horizontal Xylene drum with an open drip bucket one-half full. I was told that the general solvent used for clean-up was DX590. I observed the following coatings:

Trailchem Corp.	X75351 Glear Gloss Epoxy Baking Enamel
Milspeck Paint	Yellow Primer 7962 VOC content of 5.15 lb/gal.
Milspec Varnish	MIL-V-173C

LIMCO also operates 3 bead blasting machines in two sheds outside. The equipment utilizes glass beads and filters them through the system for reuse. I observed bags of unused glass beads in one of the sheds.

I also inspected an area in which I was told fluid service carts are built. There are none on site at this time and none ordered.

During the exit interview I explained that my concerns are with the painting area, not being able to conduct a thorough inspection of the degreaser or clean line, and the fact that LIMCO did not submit for an AD. I also stated that I would need to clarify the definitions of anodizing as they relate to the Federal Regulations in Subpart N for Chromium Electroplating and Anodizing Facilities. When asked if they had emissions inventories or the appropriate notification to the EPA regarding the degreasing unit Mr. McGrurer did not know and called his consultant, Bob Sherwin of SherWill Environmental (SherWill). I spoke to SherWill at length and found they have been LIMCO's consultant for more than 2 ½ years. SherWill stated that emissions inventories have been done over that time but not submitted to the AQD because the emissions are less than 5 tons per year when calculated for the TCE, paints and clean line. I was told the 1997 TCE emissions were 9,773 pounds (4.9 TPY). I explained that this would not include emissions from the entire facility and that LIMCO may be over the 5 TPY limit when the other emissions were included. SherWill was requested to supply the 1998 emissions and the EPA notification for the vapor degreaser which was done the following Monday, April 12, 1999. The emissions were submitted in tabular form and not on an AQD Turnaround Document. The information submitted states that LIMCO had total HAP emissions of 11,219 lbs (5.6 TPY), total NON-HAP emissions of 2,259 lbs (1.1 TPY), or total 6.7 TPY.

POLLUTION CONTROL EQUIPMENT

This facility has no actual GASEOUS pollution control equipment.

SUMMARY

From this inspection the entire compliance status of the company cannot be determined. LIMCO has many processes that may or may not require permitting and should be evaluated by the AQD. On April 8, 1999 I contacted Toni Allen of the EPA and discussed chromium anodizing at length. After various discussions we agreed that, because LIMCO does not perform chromium anodizing by an electrically induced process they are exempt from the Federal NESHAP.

SherWill delivered documentation of LIMCO's notification to the EPA regarding the vapor degreaser (Attachment I) and LIMCO's 1998 Emissions Spreadsheet (Attachment II). It appears that LIMCO's 1998 emissions were 6.7 tons. SherWill also submitted an April 9, 1999 letter to me clarifying various issues and "misgiven" information that was provided during the inspection (Attachment III). I informed SherWill that LIMCO should submit information required for an

AD to let the AQD evaluate the facility. I then called Mr. Bob Johnson, CEO of LIMCO and explained the same and followed this with a FAX (Attachment IV) officially requesting the information within 15 days. The AQD received the information on April 23, 1999 and the data is being evaluated. The following conclusions were derived from the inspection and subsequently submitted information:

1. It appears from the application data that LIMCO had emissions above the 5 TPY level that would require emissions inventory reporting. Although I was told by SherWill that the 1998 Turnaround Document had been filed with the State, Jeff Davidson in the Emissions Inventory group informed me that they do not find this in their files. The requirement to file emissions inventories has been discussed with LIMCO and its consultant.
2. It appears that LIMCO will require a permit and an application for a construction/operating permit has been received by the AQD.
3. LIMCO has paints that may exceed the VOS limitations stated in Subchapter 39 however, they may be exempt from the rule if the AQD verifies that they are under the 10 tons per year emissions limit necessary to take advantage of the exemption.
4. Once the permitting group has evaluated the information submitted a closer look at LIMCO's compliance status can be taken.
5. An unannounced follow-up inspection should be completed to determine compliance with the vapor degreaser regulations and to re-inspect their painting operations.

ATTACHMENTS

I 1996 Notification to EPA for the Vapor Degreaser
II 1998 Emissions Spreadsheet
III April 9, 1999 Letter From SherWill
IV April 12, 1999 FAX To Bob Johnson

I

LIMCO Airepair, Inc. & Aeroduct

September 23, 1996

Samuel Coleman, PE
Director, Compliance , Assurance & Enforcement Division (6EN)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

Attn: John Hepola (6EN-A)

Reference: 40CFR Part 63.468

Dear Mr. Hepola:

This letter is written to comply with the conditions set forth in 40 CFR Part 63.468, "Reporting requirements" for vapor degreasing machines. LIMCO-Airepair, Inc. currently operates one (1) such vapor degreasing machine at their facility. This letter serves as an initial notification report, as called for in Part 63.468(a). The following is requested in that Part:

1. **Name and address of the owner or operator.**

TAT Industries Ltd.
Bnei Ayish Ind. Zone
P.O. Box 80,
Gedera 70750
Israel

2. **Address (physical location) of the solvent cleaning machine.**

LIMCO-Airepair, Inc.
5304 South Lawton Avenue
Tulsa, OK 74107

See attached map for the physical location of the degreaser within the facility.

3. **Brief description of each solvent cleaning machine including type (batch vapor, batch cold, vapor inline or cold inline), solvent/air interface area, and existing controls.**

The vapor degreaser in use at LIMCO Airepair, Inc. is a batch vapor machine, using 1,1,1 Trichloroethylene as the degreasing agent. The solvent/air interface area is 1,268.5 square inches; the tank capacity is 110 gallons; temperature at the center of the air blanket was 86 degrees F; and the freeboard ratio is 1.0. Existing controls include: a primary condenser for controlling the vapor blanket, sump heating coils to heat the liquid solvent, an idling-mode cover, and reduced room draft (the machine is located against the back south wall across the aisleway from the Clean-Line Operations). Safety shut-down controls include overtemperature, and low sump level alarms.

4. **The date of installation for each solvent cleaning machine or a letter certifying that the solvent cleaning machine was installed prior to, or after, November 29, 1993.**

LIMCO-Airepair, Inc. moved the vapor degreasing tank/operations from their New York facility. This system was installed at their current location in January 1995.

5. **The anticipated compliance approach for each solvent cleaning machine.**

LIMCO-Airepair, Inc. intends to follow the guidelines set forth in 40 CFR Part 63.463, "Batch vapor and in-line cleaning machine standards," in all aspects of operating this vapor degreasing machine. Appropriate control combinations, monitoring, training, and recordkeeping requirements will be met. The Facility Manager or his/her designee is responsible for ensuring that all requirements of this Part are met.

6. **An estimate of annual halogenated HAP (hazardous air pollutant) solvent consumption for each solvent cleaning machine.**

Current estimates indicate that the degreaser used 1,080 gallons of 1,1,1 Trichloroethylene from January to December of 1995.

If there is anything further required of us at this time, you may contact me at the address above, by calling (918) 445-4300.

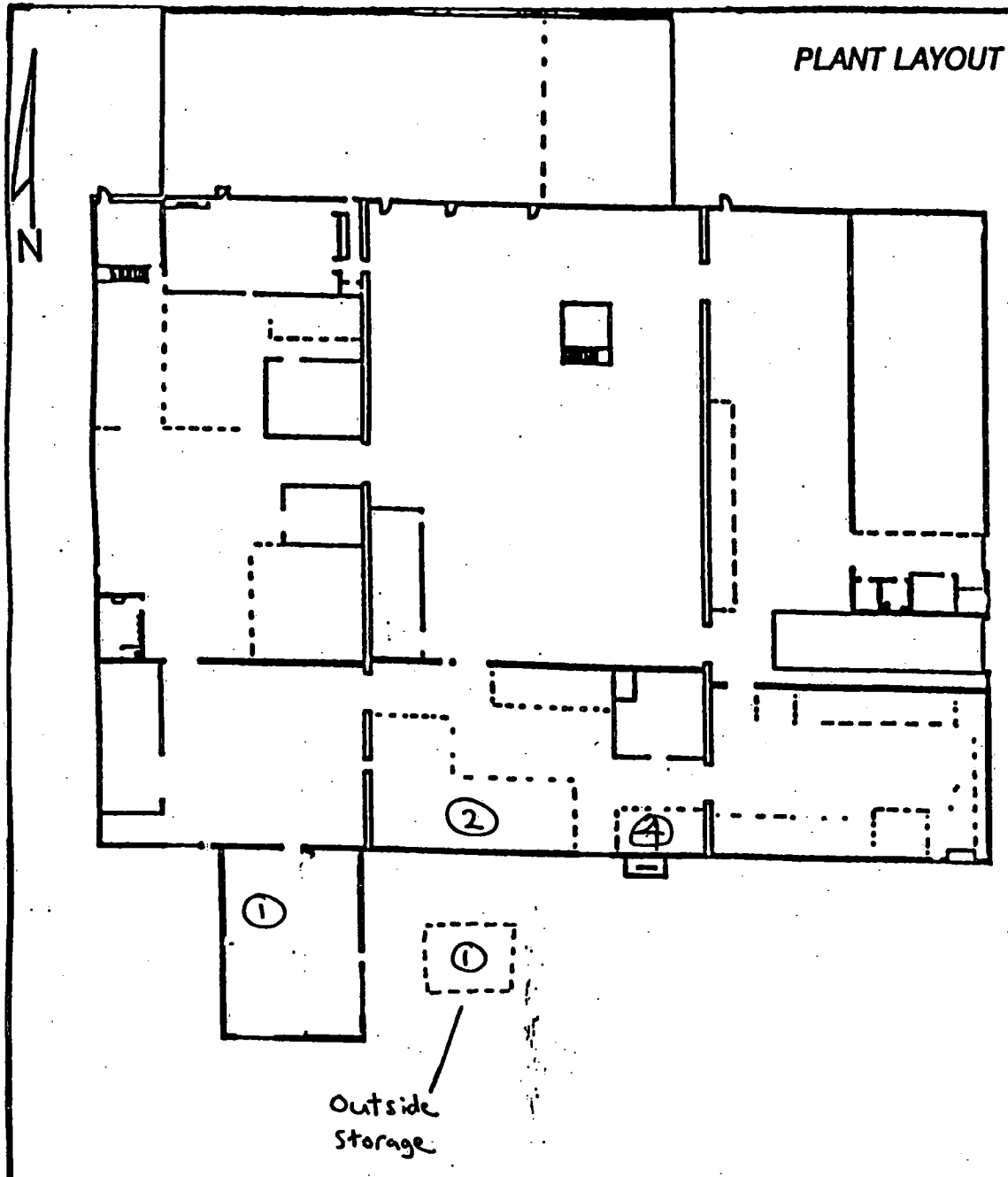
Sincerely,

Karl Kruger
Facility Manager

Enclosure

cc: Bob Sherwin - SherWill Environmental, Health and Safety Consultants

PLANT LAYOUT



① Chemical Storage

② Clean Line Area

③ Shipping Area

④ Vapor Degreaser

FACILITY DIAGRAM	
Facility: Aire Air Int'l. Inc.	
Address: 5304 S. Lawton Ave.	
City: Tulsa, ok. 74107	
FIRE DEPARTMENT USE ONLY	
Map Page Number	

II

1998 Emissions Spreadsheet for Limco Airepair, Inc.						
The following products were purchased as 100% pure product. Amounts given below represent total emissions for each product in pounds.						
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Isopropyl Alcohol		578.00	67-63-0	Non	0.14	0.29
MEK		3764.00	78-93-3	Haps	0.90	1.88
Mineral Spirits		1491.00	8052-41-3	Non	0.36	0.75
Trichloroethylene		7147.00	79-01-6	Haps	1.72	3.57
Toluene		34.00	108-88-3	Haps	0.01	0.02
The following products represent all coatings used in the paint booth at the facility.						
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
CA8100/B707 Gray	1.00	3.81			0.00	0.00
Methyl Amyl Ketone		0.38	110-43-0	Haps	0.00	0.00
MIBK		0.19	108-10-1	Haps	0.00	0.00
Xylene		0.19	1330-20-7	Haps	0.00	0.00
Toluene		0.04	108-88-3	Haps	0.00	0.00
Titanium Dioxide		1.14	13463-67-7	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
BMS 10-11 Type 1	15.00	99.00			0.02	0.05
Dimethyl Aminmethyl phe		9.90	Mix	Non	0.00	0.00
Ethylbenzene		19.80	100-41-4	Haps	0.00	0.01
Xylene		49.50	1330-20-7	Haps	0.01	0.02
Isopropyl Alcohol		39.60	67-63-0	Non	0.01	0.02
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
BMS 10-20 II A IFT	13.00	66.30			0.02	0.03
Crystalline Silica		6.63	14464-46-1	Non	0.00	0.00
n-Butyl Alcohol		6.63	71-36-3	Non	0.00	0.00
Toluene		13.26	108-88-3	Haps	0.00	0.01
Xylene		6.63	1330-20-7	Haps	0.00	0.00
Cyclohexanone		13.26	108-94-1	Haps	0.00	0.01
MEK		13.26	78-93-3	Haps	0.00	0.01
MIBK		6.63	108-10-1	Haps	0.00	0.00
Isopropyl Alcohol		6.63	67-63-0	Non	0.00	0.00
Chromium (Non Volatile)		1.33	7440-47-3	Non	0.00	0.00
Zinc (Non Volatile)		7.29	7440-66-6	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
BMS 10-20 II B IFT	13.00	68.90			0.02	0.03
Crystalline Silica		6.89	14464-46-1	Non	0.00	0.00
Butyl Acetate		13.78	123-86-4	Non	0.00	0.01
Toluene		13.78	108-88-3	Haps	0.00	0.01
Xylene		6.89	1330-20-7	Haps	0.00	0.00
Cyclohexanone		13.78	108-94-1	Haps	0.00	0.01
MIBK		6.89	108-10-1	Haps	0.00	0.00
Chromium (Non Volatile)		1.38	7440-47-3	Non	0.00	0.00
Zinc (Non Volatile		7.58	7440-66-6	Non	0.00	0.00

Product	Gal. Used	Lbs/VOC	CAS #	Haps/Non	Lbs/Hr	Ton/Year
HS Epoxy Black 595-17038	15.00	48.00			0.01	0.02
Crystalline Silica		14.40	14808-60-7	Non	0.00	0.01
Methyl Amyl Ketone		4.80	110-43-0	Haps	0.00	0.00
1-methoxy-2-propanol ace		4.80	107-98-2	Non	0.00	0.00
xylene		4.80	1330-20-7	Haps	0.00	0.00
Pseudocumene		4.80	95-63-6	Non	0.00	0.00
MEK		4.80	78-93-3	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Epoxy Gray Gloss	2.00	10.38			0.00	0.01
Formaldehyde		0.01	50-00-0	Haps	0.00	0.00
Ethylene Glycol ME		0.52	111-76-2	Non	0.00	0.00
MEK		2.60	78-93-3	Haps	0.00	0.00
Toluene		1.04	108-88-3	Haps	0.00	0.00
Xylene		0.05	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-C-22750D Gloss Black	2.00	9.36			0.00	0.00
BispehnolA Diglycidyl ...		4.45	25068-38-6	Non	0.00	0.00
Toluene		1.49	108-88-3	Haps	0.00	0.00
Additive - Grinding Agent		0.07	Prop	Non	0.00	0.00
Propylene Glycol ME		1.68	107-98-2	Non	0.00	0.00
Carbon Black		0.07	1333-86-4	Non	0.00	0.00
MEK		0.29	78-93-3	Haps	0.00	0.00
Ethyl Acetate		0.29	141-78-6	Non	0.00	0.00
n-butanol		0.20	71-36-3	Non	0.00	0.00
Silicone Resin		0.04	110775-80-9	Non	0.00	0.00
Isopropanol		0.00	67-63-0	Non	0.00	0.00
Xylene Additive		0.02	mix	Non	0.00	0.00
Mod. Dimethylpolysiloxane		0.01	Trade	Non	0.00	0.00
Xylene		0.01	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-P-23377APrimer	2.00	13.30			0.00	0.01
Strontium Chromate		2.66	7789-06-2	Haps	0.00	0.00
2-Butoxyethanol		0.67	111-76-2	Non	0.00	0.00
MEK		2.66	78-93-3	Haps	0.00	0.00
Propylene Glycol ME		0.67	107-98-2	Non	0.00	0.00
Toluene		2.00	108-88-3	Haps	0.00	0.00
Aliphatic Naptha		0.67	64742-89-8	Non	0.00	0.00
Xylene		0.67	1330-20-7	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-P-23377 B Primer	2.00	11.46			0.00	0.01
TriDimthylaminomethyl phen		0.57	N/A	Non	0.00	0.00
Polyamide Resin Solution		2.29	NA	Non	0.00	0.00
Butyl Alcohol		1.72	71-36-3	Non	0.00	0.00
Isopropyl Alcohol		4.01	67-63-0	Non	0.00	0.00
Toluene		1.72	108-88-3	Haps	0.00	0.00
Aliphatic Naptha		2.29	64742-89-8	Non	0.00	0.00
Xylene		1.15	1330-20-7	Haps	0.00	0.00

Product	Gal. Used	Lbs/VOC	CAS #	Haps/Non	Lbs/Hr	Ton/Year
Thinner Ctg Type 1	2.00	14.86			0.00	0.01
MEK		4.46	78-93-3	Haps	0.00	0.00
n-Butyl Acetate		1.49	123-86-4	Non	0.00	0.00
Propylene Glycol ME Ace		6.69	108-65-6	Non	0.00	0.00
Toluene		1.49	108-88-3	Haps	0.00	0.00
Xylene		0.74	1330-20-7	Haps	0.00	0.00
Ethylbenzene		0.74	100-41-4	Haps	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
Mil-E-5558	24.00	117.12			0.03	0.06
Toluene		10.19	108-88-3	Haps	0.00	0.01
Xylene		48.02	1330-20-7	Haps	0.01	0.02
Ethylbenzene		9.37	100-41-4	Haps	0.00	0.00
Carbon		14.05	7782-42-5	Non	0.00	0.01
Carbon Black		1.05	1333-86-4	Non	0.00	0.00
Cobalt		0.04		Non	0.00	0.00
Diethylene Gylcol ME		0.01	111-77-3	Non	0.00	0.00
Mineral Spirits		0.08	8052-41-3	Non	0.00	0.00
Product	**Gal. Used**	**Lbs/VOC**	**CAS #**	**Haps/Non**	**Lbs/Hr**	**Ton/Year**
EUAW098A Mil -C-85285B	4.00	13.56			0.00	0.01
MIBK		1.36	108-10-1	Haps	0.00	0.00
Acetic Acid		1.36	90438-79-2	Non	0.00	0.00
Modified Polyol		1.36	Prop	Non	0.00	0.00
Titanium Dioxide		6.78	13463-67-7	Non	0.00	0.00
Methyl n-Amyl Ketone		1.36	110-43-0	Haps	0.00	0.00
Acetylacetone		1.36	123-54-6	Non	0.00	0.00
n-Butyl Acetate		1.36	123-86-4	Non	0.00	0.00
Xylene		1.36	1330-20-7	Haps	0.00	0.00
PGME Acetate		1.36	108-65-6	Non	0.00	0.00
Product Totals		13391.05			3.22	6.70
TOTAL HAPS	**TOTAL LBS**		**CAS #**		**LBS/HR**	**TON/YR**
MEK	3792.06		78-93-3		0.91	1.90
Trichloroethylene	7147.00		79-01-6		1.72	3.57
Toluene	78.99		108-88-3		0.02	0.04
Methyl Amyl Ketone	6.54		110-43-0		0.00	0.00
MIBK	15.07		108-10-1		0.00	0.01
Xylene	120.02		1330-20-7		0.03	0.06
Ethylbenzene	29.91		100-41-4		0.01	0.01
Cyclohexanone	27.04		108-94-1		0.01	0.01
Formaldehyde	0.01		50-00-0		0.00	0.00
Strontium Chromate	2.66		7289-06-2		0.00	0.00
Total Haps	11219.30				2.70	5.61
TOTAL NON HAPS	**TOTAL LBS**		**CAS #**		**LBS/HR**	**TON/YR**
Isopropyl Alchol	628.24		67-63-0		0.15	0.31
Mineral Spirits	1491.08		3052-41-3		0.36	0.75

Titanium Dioxide	7.92		13463-67-7		0.00	0.00
Dimethyl Aminemethyl phe	9.90		NE		0.00	0.00
Crystalline Silica	27.92		14464-46-1		0.01	0.01
n-Butyl Alcohol	8.55		71-36-3		0.00	0.00
Chromium	2.70		7440-47-3		0.00	0.00
Zinc	14.87		744-66-6		0.00	0.01
Butyl Acetate	16.62		123-86-4		0.00	0.01
1-methoxy-2-propanol Ace	4.80		107-98-2		0.00	0.00
Pseudocumene	4.80		95-63-3		0.00	0.00
Ethylene Glycol ME	1.20		111-76-2		0.00	0.00
Propylene Glycol ME	9.03		107-98-2		0.00	0.00
PGME Acetate	1.36		108-65-6		0.00	0.00
Acetylacetone	1.36		123-54-6		0.00	0.00
Mondified Polyol	1.36		NE		0.00	0.00
Acetic Acid	1.36		90438-79-2		0.00	0.00
Bisphenol A Diglicidyl	4.45		25068-38-6		0.00	0.00
Additive - Grinding Agent	0.07		NE		0.00	0.00
Carbon Black	1.13		1333-86-4		0.00	0.00
Carbon	14.05		7782-42-5		0.00	0.01
Cobalt	0.04		NE		0.00	0.00
Ethyl Acetate	0.29		141-78-6		0.00	0.00
Silicone Resin	0.04		110775-80-9		0.00	0.00
Mod. Dimethylpolysiloxane	0.01		NE		0.00	0.00
Aliphatic Naptha	2.96		64742-89-8		0.00	0.00
TriDimethylaminomethyl phen	0.57		NE		0.00	0.00
Polyamide Resin	2.29		NE		0.00	0.00
Total Non Haps	2258.96				0.54	1.13

April 9, 1999

Roxanne Roberts
State Department of Environmental Quality; Regional Office at Tulsa
5051 South 129th East Avenue
Tulsa, OK 74134

Re: Air Emission Inventory 1998 for LIMCO-Airepair, Inc.

SherWill, Inc.
10388 E. 21st Street
Tulsa, OK 74129

Answ. Serv: (918) 660-5103
Office/Fax (918) 622-2782

Dear Roxanne:

This letter is in response to your request that LIMCO-Airepair, Inc. submit the data on what their air emissions for 1998. We have attached a copy of the 1998 Emission Inventory. Also, we have attached a copy of the notification letter submitted to EPA as part of Subpart T.

The different processes that generate the VOC's are well below the limits that would require an air permit. The only exception will be the vapor degreaser operations that utilizes 1,1,1 Trichloroethylene. In accordance with EPA directive, we are not required to submit for a Title V Permit for the Vapor Degreaser operations until the fall of 2000. This permit will be specific for only that operation and not for any other types of operations. The other operations, i.e., paint booth, clean-out of test product from checking different aircraft components in the test stand department and clean-line operations are well below the 5 ton limit criteria for VOC's before an Air Permit is required. Also, we only used 95 gallons of paint in 1998. None of paints used where above the 55 gallon limits, for each paint that is over the 3.5 lbs/voc limit, that is required in Tulsa County.

We want to clarify some misgiven information about the Alodine process (wrong information was presented during your inspection by an employee who is not aware of this particular process). Alodine process is an alternative to anodizing a part through electroplating. Alodine process is not covered under Subpart N, whereas anodizing and electroplating processes are regulated. If you need to discuss this particular issue further, please don't hesitate and call David Custer; Supervisor over the Clean-Line Operations for LIMCO-Airepair, Inc., at 445-4300.

If you have any questions or need additional information, please don't hesitate and call me at 622-2782.

Sincerely,

Robert E. Sherwin Jr.

Robert E. Sherwin, Jr.
President

Attachments

cc: Bob Johnson; LIMCO-Airepair, Inc.

IV

MARK COLEMAN
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

FRANK KEATING
Governor

April 12, 1999

VIA FAX

Mr. Bob Johnson
LIMCO Airepair, Inc. & Aeroduct
5304 S. Lawton Ave.
Tulsa, Oklahoma 74107

Dear Mr. Johnson:

This letter is to document our telephone conversation on April 12, 1999. I called you at approximately 3:30 pm to discuss permitting issues discovered during the inspection I conducted at LIMCO on April 7, 1999.

During our conversation I requested that LIMCO submit the appropriate information to facilitate an Applicability Determination for an Air Quality Permit through our agency. I further requested that the information be submitted to the Tulsa Air Quality Division within fifteen (15) days of receipt of this letter. You asked that the letter be faxed to your office. A FAX confirmation will serve to document your receipt time.

Please call me at 461-7415 should you have any questions.

Sincerely,

Roxanne Roberts

Roxanne Roberts
Senior Environmental Specialist
Air Quality Division

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

REGIONAL OFFICE AT TULSA
5051 S. 129th East Avenue
Tulsa, Oklahoma 74134

PHONE: (918) 461-7400 FAX: (918) 461-7404

TO: Bob Johnson

FROM: Roxanne Roberts

FAX #: 446-8704

DATE: April 12, 1999

PHONE#: 445-4300

TIME: 4:05 pm

SUBJECT:
Applicability Determination / Permit

Number of pages including cover Sheet 2

COMMENTS:

MESSAGE CONFIRMATION

04/12/99 16:23
ID=-- DEQ - TULSA OFFICE

NO.	MODE	SUB	GROUP
949	TX		

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OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM

DATE: September 5, 2012

TO: Files

THROUGH: Kendal Stegmann, Senior Environmental Manager
Compliance and Enforcement Group

THROUGH: Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement --- ROAT

THROUGH: Peer Review

FROM: Helen King, Environmental Programs Specialist
Compliance and Enforcement --- ROAT

cc: Mr. Bill Williams
Director of Facilities
Contact by Email

SUBJECT: Full Compliance Evaluation (FCE) at
LIMCO Airepair Inc.
5304 S. Lawton Avenue
Tulsa, Tulsa County, Oklahoma
Section 35, T19N, and R12E
Latitude 35.95011, Longitude -95.88902
AIRS ID No. 143-00155
FCE No. 5888

Introduction

On Tuesday August 28, 2012, between the hours of 0910 and 1000, an unannounced air quality full compliance evaluation was conducted at the above referenced facility. Helen King, Environmental Programs Specialist, with the Oklahoma Department of Environmental Quality – Air Quality Division in Tulsa conducted the evaluation. Mr. Bill Williams, Director of Facilities, represented the facility. This facility was evaluated to determine its compliance with state and federal regulations and it State of Oklahoma Air Quality Permit No. **99-026-O (M-2)** (Attachment A) issued on May 24, 2004.

History/Process Description

Permit History

Permit No.	Date Issued	Permit Application or Modification
99-026-O	01/14/2000	Original Operating Permit
99-026-O (M-1)	10/31/2001	Install new coating process and increase the usage of paint, solvents, degreaser solvent, hand wiping solvent, and pressure testing fluids.
99-026-O (M-2)	05/24/2004	Modification to include adding Xylene to Table No. 2 to correlate with Table No. 1, changing the wording of perchloroethylene to trichloroethylene, and increasing the use of toluene, mineral spirits, IPA, and various paints.

The facility conducted three (3) different activities such as the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.
The steps in manufacturing process of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. The heat exchangers are tested. The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated. The steps in the repair of the air ducts are: inspected for flaws, cleaned, heat dried, repairs made, cleaned, and coated.

Emissions /Source Classification

This facility is classified as a "Synthetic Minor (SM)" for permitted limits of 19.0 TPY for volatile organic compounds (VOCs), 6.8 TPY of methyl ethyl ketone (2-Butanone), and 8.7 TPY for total hazardous air pollutants (HAPS).

Reported Emissions (Attachment B)

Pollutant	2009 (TPY)	% Change	2010 (TPY)	% Change	2011 (TPY)
Volatile Organic Compounds (VOCs) (non-HAP)	8.67	**11.88**	9.70	**-12.34**	8.503
Methyl isobutyl ketone	0.04	**-75.00**	0.01	**70.00**	0.017
Toluene	2.81	**-7.117**	2.61	**45.594**	3.80
Trichloroethylene	0.90	**-33.33**	0.60	**0.333**	0.602
Xylenes	0.079	**51.899**	0.12	**8.33**	0.13

The explanation for the increase in emissions between 2010 and 2011 was from an increase in production for the military.

State/Federal Regulatory Applicability

Oklahoma Air Pollution Control Rules (Applicable)

OAC 252:100-1 (General Provisions)
OAC 252:100-3 (Air Quality Standards and Increments)

OAC 252:100-5	(Registration, Emission Inventory, and Annual Operating Fees)
OAC 252:100-7	(Permits for Minor Facilities)
OAC 252:100-9	(Excess Emissions Reporting Requirements)
OAC 252:100-13	(Prohibition of Open Burning)
OAC 252:100-19	(Particulate Matter (PM))
OAC 252:100-25	(Visible Emissions and Particulates)
OAC 252:100-29	(Fugitive Dust)
OAC 252:100-31	(Sulfur Compounds)
OAC 252:100-39	(VOC in Nonattainment and Former Nonattainment Areas)
OAC 252:100-42	(Control of Toxic Air Contaminants)
OAC 252:100-43	(Testing, Monitoring, and Recordkeeping)

Federal Regulations

NESHAP, 40 CFR Part 63
Subpart T (Halogenated Solvent Cleaners). This standard applies to all new, existing, and/or reconstructed vapor degreasers that use a halogenated solvent. This facility is an area source and is subject to Subpart T. A yearly report is required to be sent to the local DEQ Office and an additional report concerning any emergency operation which was not in compliance (Attachment C). The facility has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor.
The facility does conduct inspection and keeps records for the requirements of this subpart (Attachment C). Subpart T is discussed in Specific Condition No. 3 of this report.

Evaluation/Enforcement History

FCE

FCE No.	Date Conducted	Compliance Status
04057	11/18/2008	No violations found.
01293	12/30/2003	No violations found.

Enforcement case no. 4685 was a self-disclosure opened on November 20, 2008 and closed on July 22, 2009. The facility failed to keep records for the vapor degreaser and to submit an annual report required by Subpart T. All issues were addressed and corrected.

Annual Compliance Certifications/Semiannual Reports
This facility is not classified as a Part 70/Title V Major Source and is not required to submit annual compliance certifications and semiannual reports.

Excess Emissions
No excess emissions have been reported from this facility.

On-site Evaluation

The inspector was met at the facility by Mr. Williams. The inspector explained the purpose of the evaluation and discussed records. Mr. Williams escorted the inspector on the physical tour of the facility starting with the vapor degreaser. The inspector observed the degreaser was in use and the cover was on. The facility employs and has trained two (2) technicians to operate this unit properly. The inspector reviewed all required records kept at the unit and the operating/maintenance manual is attached to the unit. A copy of the degreaser log was made for the inspector (Attachment C). Mr. Williams stated the degreaser still uses trichloroethylene and the facility has considered purchasing a new degreaser unit to replace the one on-site. The new unit would be the same size as the old one to avoid any increase in emissions and to comply with the facility's air quality permit. The facility paint booth was on but no paint spraying was being conducted. The pressure was observed at 0.20 w.c. The booth was equipped with a two stage filtering system and the filters had been recently changed. All solvent containers, paint cans, and solvent rag disposal were all covered in the paint booth. Mr. Williams pointed out the new draft test area which was still under construction at the time of this evaluation. The dip coating area is totally isolated from the rest of the facility and is equipped with positive pressure filtering system and a fire depressant equipment. The dip coating unit was not in operation at the time of this evaluation. The dip coating unit uses toluene in it formulation but no odor was noticed in this area. A smaller paint booth is located in the back of the building and is used for storage at this time.

Specific Conditions for Permit No. 99-026-O (M-2)

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit Limits	
		PPH	TPY
Dip Coat	Toluene	2.40	5.1
	Xylene	0.19	0.40
	805 Resin	0.20	0.43
Degreaser	Trichloroethylene	1.50	3.20
Wipe	MEK	3.20	6.80
Testing	Mineral Spirits	0.53	1.20
Wipe	IPA	0.82	1.80
Paint	Various	0.22	0.50

Reported Emissions

Emission Points	Pollutant	2009 (TPY)	2010 (TPY)	2011 (TPY)
Dip Coat	Toluene	2.77	2.80	3.75
	Xylene	-0-	-0-	-0-
Degreaser	Trichloroethylene	0.90	0.60	0.602
Wipe Down*	VOCs (non-HAP)	8.26	8.60	7.50

Testing	VOCs (non-HAP)	0.331	0.95	0.851
	Xylenes	0.049	0.09	0.09
Paint Booth	Various	0.188	0.20	0.259

Wipe down reported value is the combination of wipe down (MEK) and wipe down (IPA) which has a total of 8.60 TPY for permit limits.

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD (1)	GPY
Toluene	5.4	1,400
Xylene	0.43	110
805 Resin	0.60	157
Trichloroethylene	2.00	520
MEK	7.70	2,000
Mineral Spirits	1.37	355
IPA	2.04	530
Paints, various	0.39	100

(1) These gallons/day are work-week averages.

Records show the facility has not exceeded the material usage listed above (Attachment E).

2. Alternate products and production quantities can be varied under the following conditions.

a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.

Records show emissions for alternate products did not exceed 10 TPY (Attachment E).

b. A change in either production or products is permitted provided there would be no increase in the quantity of the resulting emissions. Additionally, the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC 252:100-41.

There has been no change in production or products resulting in an emissions increase since the last FCE.

c. The facility shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.

No operational changes have been made that would cause significant increase in air emissions.

d. Maintain written documentation to show compliance with all current Federal, State, and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

The facility does maintain all required records and documentation.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office in Tulsa.

§63.463 Batch vapor and in-line cleaning machine standards.
(a)(1) Each cleaning machine shall be designed or operated to meet the control equipment or technique requirements in paragraph (a)(1)(i) or (a)(1)(ii) of this section.

(i) An idling and downtime mode cover, as described in §63.463(d)(1)(i), that may be readily opened or closed, that completely covers the cleaning machine opening when in place, and is free of cracks, holes, and other defects.

The degreaser unit is equipped with a properly sealed cover.

(2) Each cleaning machine shall have a free board ratio of 0.75 or greater.
The facility does comply with Table 1 of this Subpart by maintaining a free board ratio of 1.0.

(3) Each cleaning machine shall have an automated parts handling system capable of moving parts or pars baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts.
The facility has determines the hoist speed for the unit is sixteen (16) feet per minute (fpm).

(4) Each vapor cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent levels drop to the sump heater coils. This requirement does not apply to a vapor cleaning machine that uses steam to heat the solvent.
The degreaser unit is equipped with an automatic shut off when the solvent levels drops too low.

(5) Each vapor cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
The degreaser unit is equipped with a vapor level control switch.

(6) Each vapor cleaning machine shall have a primary condenser.
The degreaser unit is equipped with a primary condenser.

(b) Except as provided in §63.646, each owner or operator of an existing or new batch vapor cleaning machine shall comply with either paragraph (b)(1) or (b)(2) of this section.
(1) Each owner or operator of a batch vapor cleaning machine with a solvent/air interface area of 1.21 square meters (13 square feet) or less shall comply with the requirements specified in either paragraph (b)(1)(i) or (b)(1) (ii) of this section.

(i) Employ one of the control combinations listed in table 1 of this subpart or other equivalent methods of control as determined using the procedure in §63.469, equivalent methods of control.

Table 1 –Control Combinations for Batch Vapor Solvent Cleaning

Machines with a Solvent/Air Interface Area of 1.21 Square Meters (13 Square Feet) or less

Option	Control combinations
1	Working-mode cover, freeboard ratio of 1.0, superheated vapor.
2	Freeboard refrigeration device, superheated vapor.
3	Working-mode cover, freeboard refrigeration device.
4	Reduced room draft, freeboard ratio of 1.0, superheated vapor.
5	Freeboard refrigeration device, reduced room draft.
6	Freeboard refrigeration device, freeboard ratio of 1.0.
7	Freeboard refrigeration device, dwell
8	Reduced room draft, swell, freeboard ratio of 1.0.
9	Freeboard refrigeration device, carbon adsorber.
10	Freeboard ratio of 1.0, superheated vapor, carbon adsorber.

The facility has opted to use Option 1 of the control combinations.

4. The permitee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

a. The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

The degreaser is equipped with a working mode cover. The operator of the unit demonstrated the covers were easy to remove.

b. The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

The degreaser unit is equipped with safety switches.

c. Since LIMCO has chosen Option 1 for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio no less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, LIMCO decides one of the other options available in this subpart would be a better choice, LIMCO shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

The degrease unit maintains a freeboard ratio no less than 1.0. The set temperature of for the unit using a super heater is 214°F. The boiler point of trichloroethylene is 188°F. The requirement is for no less than 188°F plus 10°F = 198°F.

d. LIMCO will properly train each person who will operate the degreaser before they are allowed to use the machine. The written syllabus used for training will be readily available to each trained operator.

The facility employs two (2) operators for the degreaser. One for each shift operated, the operators are the only personnel allowed to operate the degreaser. Training manuals are kept on-site.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

a. Records sufficient to demonstrate that the weekly averages of the product usages do not exceed those shown in Specific Conditions #1, Table No .2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded than compliance with that pollutant's MAAC must be demonstrated.

The facility does submit a semiannual exceedance report to the DEQ (Attachment D).

b. Degreaser records required by Specific Condition #3.

The facility does keep all requires required for 40 CFR Part 63 Subpart T and the Specific Conditions of this permit (Attachment C)

c. Material usages (monthly and 12-month rolling totals).

The facility does keep records of all material usages (Attachment E).

6. This permit supersedes all previous permits for this facility, which are now null and void.

Exit Interview/Summary

The inspector discussed the findings of the evaluation with Mr. Williams before leaving the facility.

Based on the information provided or obtained during this evaluation, no violations, or deviations were observed at the Facility.

Attachments

A) Air Quality Permit No. 99-026-O (M-2)
B) Annual Emission Inventories
C) Vapor Degreaser Data and Records
D) 40 CFR Part 63 Subpart T Semiannual Report
E) Product and Material Usage

ATTACHMENT A

(A)

OKLAHOMA DEPARTEMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **May 24, 2004**

TO: Dawson F. Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: Richard Kienlen, P.E., Engr. Mgr. II, New Source Permits Section

THROUGH: Hal Wright, Regional Office At Tulsa

FROM: Jennifer Tyler, Regional Office At Tulsa

SUBJECT: Evaluation of Permit Application No. **99-026-O (M-2)**
Limco-Airepair, Inc. (LA)
5304 S. Lawton Ave.
Tulsa, Tulsa County, OK
Section 35, Township 19N, Range 12E
Directions: Taking Hwy 75 south you exit on I-44 East, take the first access road exit before merging onto I-44. Turn right on the access road and the first street you come to is South Lawton. Turn left onto Lawton, and the plant is at the end of the street on your right.

INTRODUCTION

Limco-Airepair, Inc. (LA) is requesting a modification of their current Operating Permit No. 99-026-O (M-1). The modification will include adding Xylene to Table No. 2 to correlate with Table No. 1, changing the wording of perchloroethylene to read trichloroethylene, and increasing the use of toluene, mineral spirits, IPA, and various paints.

PROCESS DESCRIPTION

In general, the plant has three product activities, i.e., the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.

Manufacturing Process

All ovens used for drying and soldering have a combined heat rate of 0.80 MMBTUH.

First, LA buys thin sheets of aluminum and stainless steel to use in the manufacture and repair of various products.

The steps in the manufacture of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. LA is required to test most of

the heat exchangers that are of a new design. The new units are performance tested for flow vs pressure drop of both the cooling medium (air) over the outside of the heat exchanger, and the medium to be cooled (engine lube oil, hydraulic fluid, etc.) which is on the inside of the exchanger. They are also tested for their heat transfer capabilities.

The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated.

The steps in the repair of the air ducts are: inspected for flaws, cleaned, heat dried, repairs made, cleaned, and coated.

WELDING/SOLDERING

Various types of welding are used by LA, i.e., MIG, TIG, etc.

The soldering is done by placing assembled, "tinned" parts in natural gas fired ovens. Tinning is a process where the part is coated with the required amount of solder/flux on each joint to be soldered. The part is then heated to a temperature just above the melting point of the solder to allow the solder to melt and flow into the joint to be soldered. The part is then cooled to room temperature in ambient air.

SIZING/SHAPING

This is done with conventional sheet metal shears, sheet metal brakes, stamping machines, etc.

COATING

All products are cleaned and heat dried before coating.

The parts may get some combination of four types of coatings, i.e. paint, alodine, anodize, or silicone aluminum dip. Anodizing is done by an outside contractor; all others are done by LA.

Less than 10% of all products are spray-painted. The painting is done in a totally enclosed 12' x 12' x 8' high paint booth using a high volume low pressure spraying rig. The paint over-spray is sucked through a 95% efficient dry type filter at 3,500 acfm and exhausts 8 feet above grade through a 12-inch diameter duct.

The alodine process is done by soaking the part in a bath of nitric/chromic acid, which results in the desired surface getting a coat of aluminum oxide. This process does not use heat or electric current.

Silicone/Aluminum Dip solution consists of 8.4 gallons of Toluene, 1.0 gallon of Dow #805 silicone resin, and 1.6 pounds of aluminum powder. 61.5 gallons of this solution is placed in a 400-gallon dipping tank that is located in a totally enclosed room (10 ft x 12 ft x 10 ft high) within the shop. After the part is dipped (the part is completely coated) it is hung over the tank to drip and dry. The result is the part gets a thin coat of aluminum filled silicone. The air in the dipping room

is exhausted to the outside by a 22,000 acfm fan through a dry type filter in a 14 inch diameter duct at 10 ft above grade.

Anodizing is a process where a surface on the part gets a coating of aluminum by an electrolysis process. The part is made an anode as part of an electric circuit in a bath of acid, and as a result aluminum is deposited on the part's surface.

CLEANING

Parts are cleaned by different chemicals at different stages in the manufacturing/repair processes. The parts can be cleaned by hand wiping with solvents, acid, or caustic bath followed by water rinse or trichloroethylene degreaser.

The parts are dried after the cleaning process by electric heated ovens or natural gas fired ovens.

The facility operates 16 hours per day, 5.5 days per week, and 22 days a month, or 4,224 hours per year.

EMISSIONS

The significant air emissions are from the hand wiping of parts with solvents and coating. The air emissions from parts drying (combustion of natural gas), welding, and metal sizing/shaping are negligible, and will not be included in the following emissions analysis.

Purchases of acids and caustics used in the clean lines have been tabulated in the application. The replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Limco estimates the use of trichloroethylene for the degreaser to be 520 gallons per year, which is shown in the following emission table. This includes material that was collected for reclamation. The emissions shown are the net amounts. The vapor degreaser holds 110 gallons of trichloroethylene and has a freeboard ratio of 1.3.

Materials used in cleaning and wipe down of the parts include 2,000 gallons per year (GPY) of MEK and 530 GPY of isopropyl alcohol. The use of mineral spirits in pressure testing is estimated to be 355 GPY. The facility uses 95 gallons of ten different primers, topcoats and solvents.

The following tables show the total facility VOC and HAPs emissions.

FACILITY TOTAL EMISSIONS [2]

USE	POLLUTANT	CAS NO.	HAP	CAT	De minimis		Permit limits	
					PPH	TPY	PPH	TPY
Dip Coat	Toluene	108883	Y	C	5.60	6.00	2.40	5.10
	Xylene	133027	Y	C	5.60	6.00	0.19	0.40
Degreaser	Trichloroethylene	79016	Y	A	0.57	0.60	1.50	3.20
Wipe	MEK	108101	N	C	5.60	6.00	3.20	6.80 [3]
Testing	Mineral Spirits	64742887	N	C	5.60	6.00	0.53	1.20
Wipe	IPA	67630	N	C	5.60	6.00	0.82	1.80
Paint [1]	Various	Various	NA	NA	(2)	(2)	0.22	0.50
TOTAL VOC								**19.00**
TOTAL HAPS								**8.70**

(1) If all the paint VOCs were Cat. A the de minimis would not be exceeded. (2) Does not include combustion emission pollutants, which are negligible. (3) EPA Screen3 modeling shows a maximum ground level concentration of 1,259 micrograms per cubic meter (ug/m^3) for an emission rate of 3.2 pounds per hour as compared to an allowable maximum acceptable ambient concentration (MAAC) of 59,000 ug/m^3.

The following table shows the VOC emission data comparison between the new permit and the existing permit in TPY.

Pollutant	Existing	New	Change
Paint	0.56	0.50	-0.06
Trichloroethylene	3.00	3.20	+0.20
Cleaning	7.50	6.80	-0.70
Testing	2.50	1.20	-1.30
Dip: Toluene	5.00	5.10	+0.10
Xylene	0.36	0.40	+0.04
Total	**18.92**	**17.20**	**-1.72**

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Subchapter 3 enumerates the primary and secondary ambient air quality standards and the significant deterioration increments. At this time, all of Oklahoma is in "attainment" of these standards.

OAC 252:100-4 (New Source Performance Standards) [Not Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2002, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G. These requirements are addressed in the "Federal Regulations" section.

OAC 252:100-5 (Registration, Emission Inventory and Annual Operating Fees) [Applicable]
Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants. An emission inventory was submitted and fees paid for previous years as required.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
Subchapter 7 sets forth the permit application fees and the basic substantive requirements of permits for minor facilities. Since criteria pollutant emissions are less than 100 TPY for each pollutant, and emissions of HAPs will not exceed 10 TPY for any one HAP or 25 TPY for any aggregate of HAPs, the facility is defined as a minor source. As such, BACT is not required.

OAC 252:100-9 (Excess Emissions Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as the owner or operator of the facility has knowledge of such emissions, but no later than 4:30 p.m. the next working day. Within ten (10) working days after the immediate notice is given, the owner or operator shall submit a written report describing the extent of the excess emissions and response actions taken by the facility.

OAC 252:100-13 (Prohibition of Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this subchapter.

OAC 252:100-19 (Particulate Matter (PM)) [Applicable]
Section 19-4 regulates emissions of PM from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4 -1 lists natural gas TPM emissions to be 7.6 lbs/million scf or about 0.0076 lbs/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences that consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Based on past experience with this facility, the potential for violating the standards is negligible.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originated in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or to interfere with the maintenance of air quality standards. Under normal operating conditions, this facility

has negligible potential to violate this requirement; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100-31 (Sulfur Compounds) [Applicable]
Fuel-burning equipment at this facility uses commercial natural gas. The AP-42 (2/98), Table 1.4-2 emission factor of 0.6 pounds of SO_2 per million cubic feet equates to approximately 0.0006 lbs/MMBTU. This is well below the new equipment standard of 0.2 lbs/MMBTU for gas fuel.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
This subchapter limits new gas-fired fuel-burning equipment with rated heat input greater than or equal to 50 MMBTUH to emissions of 0.2 lbs of NO_x per MMBTU, three-hour average. There are no equipment items that exceed the 50 MMBTUH threshold.

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
None of the following affected processes are located at this facility: gray iron cupola, blast furnace, basic oxygen furnace, petroleum catalytic cracking unit, or petroleum catalytic reforming unit.

OAC 252:100-37 (Volatile Organic Compounds) [Not Applicable]
-15 Storage of VOCs. This facility does not store any hydrocarbon liquids, and is not an affected source under this section.
-36 Fuel-Burning Equipment. Under this section Limco is required to adjust the burners for essentially complete fuel combustion. Limco-Airepair burns only commercial-grade natural gas in the combustion units, which promotes compliance. The facility anticipates remaining in compliance under normal operations.
-25 This section limits the VOC content of coating used in coating lines or operations for any facility with VOC emissions in excess of 100 lbs/day. Coating parts operations will consume less than 50 pounds of VOC per day, so the facility is exempt.

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas) [Applicable]
Part 7, Sections 46 concerns coating of metal parts and products. Per 39-46 (h), Limco is exempt as the VOC emissions from surface coating and cleaning do not exceed 10 TPY.

OAC 252:100-41 (Hazardous Air Pollutants and Toxic Air Contaminants) [Applicable]
Part 3 addresses hazardous air contaminants. NESHAP, as found in 40 CFR Part 61, are adopted by reference as they exist on July 31, 2002, with the exception of Subparts B, H, I, K, Q, R, T, W and Appendices D and E, all of which address radionuclides. In addition, General Provisions as found in 40 CFR Part 63, Subpart A, and the Maximum Achievable Control Technology (MACT) standards as found in 40 CFR Part 63, Subparts F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, CCCC, GGGG, HHHH, NNNN, SSSS, TTTT, UUUU, VVVV, and XXXX are hereby adopted by reference as they exist on July 31, 2002. These standards apply to both existing and new sources of HAPs. These requirements are covered in the "Federal Regulations" section.

Part 5 is a **state-only** requirement governing toxic air contaminants. New sources (constructed after March 9, 1987) emitting any category "A" pollutant above de minimis levels must perform a BACT analysis, and if necessary, install BACT. All sources are required to demonstrate that emissions of any toxic air contaminant that exceed the de minimis level do not cause or contribute to a violation of the maximum acceptable ambient concentration (MAAC). There are two toxics that exceed their de minimis, MEK and Trichloroethylene. Trichloroethylene is a HAP and Category A toxic generated by the vapor degreaser, which is subject to a Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart T. As such, Trichloroethylene is exempt from this part per §41-43(a)(3). Screen3 modeling for MEK has a ground-level concentration of 1,259 $\mu g/m^3$ as compared to a MAAC of 59,000 $\mu g/m^3$. This facility is in compliance.

OAC 252:100-43 (Testing, Monitoring, and Recordkeeping) [Applicable]
This subchapter provides general requirements for testing, monitoring and recordkeeping and applies to any testing, monitoring or recordkeeping activity conducted at any stationary source. To determine compliance with emissions limitations or standards, the Air Quality Director may require the owner or operator of any source in the state of Oklahoma to install, maintain and operate monitoring equipment or to conduct tests, including stack test, of the air contaminant source. All required testing must be conducted by methods approved by the Air Quality Director and under the direction of qualified personnel. A notice-of-intent to test and a testing protocol shall be submitted to Air Quality at least 30 days prior to any EPA Reference Method stack tests. Emissions and other data required to demonstrate compliance with any federal or state emission limit or standard, or any requirement set forth in a valid permit shall be recorded, maintained, and submitted as required by this subchapter, an applicable rule, or permit requirement. Data from any required testing or monitoring not conducted in accordance with the provisions of this subchapter shall be considered invalid. Nothing shall preclude the use, including the excusive use, or any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

FEDERAL REGULATIONS

PSD, 40 CFR Part 52 [Not Applicable]
PSD does not apply. Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]
There are no sources or facilities at this site affected by any NSPS subpart.

NESHAP, 40 CFR Part 61 [Not Applicable]
There are no emissions of any of the regulated pollutants: arsenic, asbestos, benzene, beryllium, coke oven emissions, mercury, radionuclides, or vinyl chloride.

NESHAP, 40 CFR Part 63 [Subpart T Applicable]
Subpart T (Halogenated Solvent Cleaners). This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. The facility is an area source subject to Subpart T, and has complied with the initial notification requirement. A yearly report is required to be sent to the local DEQ office and an additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. The applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. The applicant is in compliance.
Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo.

Stratospheric Ozone Protection, 40 CFR Part 82 [Not Applicable]
This facility does not produce, consume, recycle, import, or export any controlled substances or controlled products as defined in this part, nor does this facility perform service on motor (fleet) vehicles that involves ozone-depleting substances. Therefore, as currently operated, this facility is not be subject to these requirements. To the extent that the facility has air-conditioning units that apply, the permit requires compliance with Part 82.

COMPLIANCE

Tier Classification and Public Review

This application has been classified as **Tier I** based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

Inspection

No inspection was performed on this facility because the facility did not remove or construct any new equipment. The modification requested was an increase in usage and a change in wording only.

Fee Paid

Permit modification fee of $500 was paid on February 20, 2004.

SUMMARY

There are no active Air Quality compliance or enforcement issues that would affect the issuance of this permit. Issuance of the modified operating permit is recommended.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

    a. Records sufficient to demonstrate that the weekly averages of the product usages do not exceed those shown in Specific Condition #1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
    b. Degreaser records required by Specific Condition #3.
    c. Material usages (monthly and 12-month rolling totals).

6. This permit supercedes all previous permits for this facility, which are now null and void.

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON STREET, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Issuance Date: _____ **Permit Number:** 99-026-O (M-2)

Limco-Airepair, Inc.,

having complied with the requirements of the law, is hereby granted permission to operate the facility to manufacture and repair aircraft parts at 5304 S. Lawton Avenue, Tulsa County, Oklahoma,

subject to the following conditions, attached:

[X] Standard Conditions dated October 31, 2003

[X] Specific Conditions

_____ Chief Engineer, Air Quality Division

ATTACHMENT B

AIR EMISSIONS INVENTORY TRENDS

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100

Company Name: LIMCO AIREPAIR INC AND AERODUCT

3620 5304 S LAWTON AVE

Inventory Year	Pollutant	Amount (Tons)	CAS
2009			
	* Volatile Organics (non-HAP)	8.67	
	Methyl isobutyl ketone	0.04	108101
	Toluene	2.81	108883
	Trichloroethylene	0.9	79016
	Xylenes (mixed isomers)	0.079	1330207
2010			
	* Volatile Organics (non-HAP)	9.7	
	Methyl isobutyl ketone	0.01	108101
	Toluene	2.81	108883
	Trichloroethylene	0.6	79016
	Xylenes (mixed isomers)	0.12	1330207

2011 TEAM ID 3620

LIMCO AIREPAIR INC AND AERODUCT
5304 S LAWTON AVE

Thursday, June 28, 2012
Updated: 4/24/2012

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions: Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: WILLIAMS, BILL
Phone: (918) 445-4300
Fax: (918) 446-8704

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

Latitude: 35.95011
Longitude: -95.88902

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	8.503	
Methyl isobutyl ketone	0.017	108101
Toluene	3.8	108883
Trichloroethylene	0.602	79016
Xylenes (mixed isomers)	0.13	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Wipedown	Operating	35.95011	-95.88902
2	Vapor Degreaser	Operating	35.95011	-95.88902
3	Paint Booth	Operating	35.95005	-95.88902
4	Dip Coating	Operating	35.95011	-95.88902
5	Testing	Operating	35.95011	-95.88902

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	10.70	0.002	Tons	4992	16	6	40188898	N
2	Petroleum and Solvent Evaporatio	8.33	0.002	Tons	4992	16	6	40188898	N
3	Petroleum and Solvent Evaporatio	0.78	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	4.96	0.001	Tons	4992	16	6	40100399	N
5	Petroleum and Solvent Evaporatio	2.46	0.001	Tons	4992	16	6	40188898	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	7.5	9.5	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Trichloroethylene	0.602	3.2	Mass Balance	Vapor Recover	99	* Uncontrolled	0
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	* Volatile Organics (non-HAP)	0.152	0.56	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Toluene	0.05	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Xylenes (mixed isomers) 0.25	0.04	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Methyl isobutyl ketone	0.017	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	3.75	5.1	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	* Volatile Organics (non-HAP)	0	5.36	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
5	* Volatile Organics (non-HAP)	0.851	2.5	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
5	Xylenes (mixed isomers)	0.09	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	6
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

2010 TEAM ID 3620

LIMCO AIREPAIR INC AND AERODUCT
5304 S LAWTON AVE

Thursday, June 28, 2012
Updated: 4/24/2012

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions: Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: WILLIAMS, BILL
Phone: (918) 445-4300
Fax: (918) 446-8704

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

Latitude: 35.95011
Longitude: -95.88902

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	9.7	
Methyl isobutyl ketone	0.01	108101
Toluene	2.81	108883
Trichloroethylene	0.6	79016
Xylenes (mixed isomers)	0.12	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Wipedown	Operating	35.95011	-95.88902
2	Vapor Degreaser	Operating	35.95011	-95.88902
3	Paint Booth	Operating	35.95005	-95.88902
4	Dip Coating	Operating	35.95011	-95.88902
5	Testing	Operating	35.95011	-95.88902

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	12.20	0.002	Tons	4992	16	6	40188898	N
2	Petroleum and Solvent Evaporatio	8.30	0.002	Tons	4992	16	6	40188898	N
3	Petroleum and Solvent Evaporatio	0.70	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	3.70	0.001	Tons	4992	16	6	40100399	N
5	Petroleum and Solvent Evaporatio	2.70	0.001	Tons	4992	16	6	40188898	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	8.6	9.5	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Trichloroethylene	0.6	3.2	Mass Balance	Vapor Recover	99	* Uncontrolled	0
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	* Volatile Organics (non-HAP)	0.15	0.56	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Xylenes (mixed isomers)	0.03	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Toluene	0.01	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Methyl isobutyl ketone	0.01	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	2.8	5.1	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	* Volatile Organics (non-HAP)	0	5.36	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
5	* Volatile Organics (non-HAP)	0.95	2.5	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
5	Xylenes (mixed isomers)	0.09	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

0.2D

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	6
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

2009 TEAM ID 3620

LIMCO AIREPAIR INC AND AERODUCT

5304 S LAWTON AVE

Thursday, June 28, 2012

Updated: 4/24/2012

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions:
Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: WILLIAMS, BILL
Phone: (918) 445-4300
Fax: (918) 446-8704

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

Latitude: 35.95011
Longitude: -95.88902

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	8.67	
Methyl isobutyl ketone	0.04	108101
Toluene	2.81	108883
Trichloroethylene	0.9	79016
Xylenes (mixed isomers)	0.079	1330207

POINTS

Seq.	Name	Status	LATITUDE	LONGITUDE
1	Wipedown	Operating	35.95011	-95.88902
2	Vapor Degreaser	Operating	35.95011	-95.88902
3	Paint Booth	Operating	35.95005	-95.88902
4	Dip Coating	Operating	35.95011	-95.88902
5	Testing	Operating	35.95011	-95.88902

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	11.34	0.002	Tons	4992	16	6	40188898	N
2	Petroleum and Solvent Evaporatio	6.10	0.001	Tons	4992	16	6	40188898	N
3	Petroleum and Solvent Evaporatio	0.50	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	3.30	0.001	Tons	4992	16	6	40100399	N
5	Petroleum and Solvent Evaporatio	1.20	0	Tons	4992	16	6	40188898	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	8.26	9.5	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
2	Trichloroethylene	0.9	3.2	Mass Balance	Vapor Recover	99	* Uncontrolled	0
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	* Volatile Organics (non-HAP)	0.078	0.56	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Toluene	0.04	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Methyl isobutyl ketone	0.04	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
3	Xylenes (mixed isomers)	0.03	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	Toluene	2.77	5.1	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
4	* Volatile Organics (non-HAP)	0.001	5.36	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
5	* Volatile Organics (non-HAP)	0.331	2.5	Mass Balance	* Uncontrolled	0	* Uncontrolled	0
5	Xylenes (mixed isomers)	0.049	0	Mass Balance	* Uncontrolled	0	* Uncontrolled	0

0.1885

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	6
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

ATTACHMENT C

(daily) TALLY VAPOR DEGREASER TEMPERATURE LOG

DATE	HOT ZONE (F)	COLD ZONE (F)	AIR BLANKET (F)
7-23-12	166.4	109.8	93.4
7-24-12	166.3	118.9	90.5
7-25-12	165.9	117.4	89.7
7-30-12	165.8	116.3	90.5
7-31-12	166.3	110.8	88.7
8-1-12	165.0	117.5	93.2
8-2-12	165.1	129.2	84.5
8-3-12	163.7	138.8	88.3
8-4-12	162.5	137.9	86.2
8-6-12	162.5	103.6	85.7
8-7-12	163.1	136.7	85.3
8-8-12	162.3	132.6	89.8
8-9-12	162.3	133.7	86.4
8-10-12	163.3	134.4	88.4
8-13-12	163.3	139.2	88.6
8-14-12	164.1	138.6	87.9
8-15-12	163.6	137.4	86.8
8-16-12	164.5	138.1	88.1
8-17-12	163.2	138.7	85.6
8-20-12	164.1	138.4	84.9
8-21-12	162.3	138.1	84.5
8-22-12	163.7	138.7	83.9
8-23-12	162.5	138.5	84.5
8-27-12	161.4	136.0	82.6

ATTACHMENT D

LIMCO
Airepair, Inc.

January 20, 2012

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2011 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

LIMCO Airepair, Inc.

2011 VAPOR DEGREASER 3-MONTH ROLLING TOTAL EMISSIONS

	TCE (gal) Added	TCE (gal) Removed	Sludge Removed	Emissions	3-Month Rolling Total	
Jan	140	137	0	5.22	7.5	Jan
Feb	255	254	0	1.74	8.1	Feb
Mar	140	125	0	26.08	11.0	Mar
Apr	150	146	0	6.95	11.6	Apr
May	20	18	0	3.48	12.2	May
June	125	114	0	19.12	9.9	June
July	20	8	0	20.86	14.5	July
Aug	53	34	0	33.03	24.3	Aug
Sept	228	207	0	36.51	30.1	Sept
Oct	170	170	0	0.00	23.2	Oct
Nov	35	32	0	5.22	13.9	Nov
Dec	34	26	0	13.91	6.4	Dec
Total Lbs.	16672.9	15468.07			REMOVED	1271 gl/yr
lbs put in	#VALUE!		TPY Used=	8.3	USAGE=	1370 gl/yr
Per Month	1389.4				or "Added"	

Average Monthly Solvent Consumption=
pounds put into degreaser minus pounds taken out

lbs.Waste Per Month	1289.0		100.4	lbs/mo	45.5 kg/mo
gal waste year	1271		1204.8	lbs/yr	546.5 kg/yr
		Emissions	0.6	ton/yr	

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

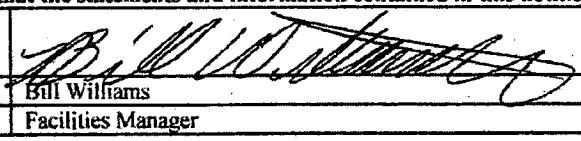
Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011	

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[t]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	546.5 kg/yr

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 20, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)				
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011		

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		45.5

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.
[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	5.22 lbs	7.5 lbs				
2	1.74 lbs	8.1 lbs				
3	26.08 lbs	11.0 lbs				
4	6.95 lbs	11.6 lbs				
5	3.48 lbs	12.2 lbs				
6	19.12 lbs	9.9 lbs				
7	20.86 lbs	14.5 lbs				
8	33.03 lbs	24.3 lbs				
9	36.51 lbs	30.1 lbs				
10	0 lbs	23.2 lbs				
11	5.22 lbs	13.9 lbs				
12	13.91 lbs	6.4 lbs				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).
[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	1-20-2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period	Semiannual Reporting		January – June (Due July 30)		X	July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun	Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

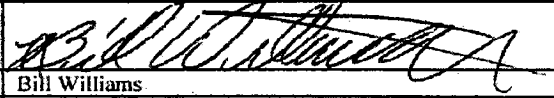
Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 20, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

LIMCO Airepair, Inc.

RECEIVED
JUL 16 2012
AIR QUALITY

July 9, 2012

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2012 Degreaser Semiannual Exceedance Report

Enclosed is the Semiannual Exceedance Report for January through June, 20112.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

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Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)		July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:			Ending Date:			

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

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Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			
Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
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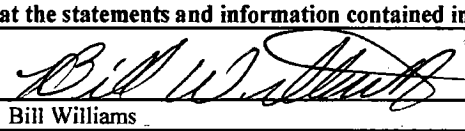
Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	July 9, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

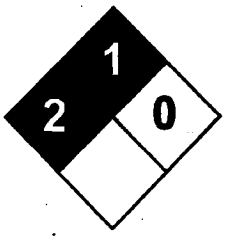
Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

ATTACHMENT E

ScienceLab.com
Chemicals & Laboratory Equipment



Health	2
Fire	1
Reactivity	0
Personal Protection	H

Material Safety Data Sheet
Trichloroethylene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Trichloroethylene

Catalog Codes: SLT3310, SLT2590

CAS#: 79-01-6

RTECS: KX4560000

TSCA: TSCA 8(b) inventory: Trichloroethylene

CI#: Not available.

Synonym:

Chemical Formula: C2HCl3

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Trichloroethylene	79-01-6	100

Toxicological Data on Ingredients: Trichloroethylene: ORAL (LD50): Acute: 5650 mg/kg [Rat]. 2402 mg/kg [Mouse]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified + (PROVEN) by OSHA. Classified A5 (Not suspected for human.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, the nervous system, liver, heart, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 420°C (788°F)

Flash Points: Not available.

Flammable Limits: LOWER: 8% UPPER: 10.5%

Products of Combustion: These products are carbon oxides (CO, CO2), halogenated compounds.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/

spray. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 50 STEL: 200 (ppm) from ACGIH (TLV) TWA: 269 STEL: 1070 (mg/m3) from ACGIH Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 131.39 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 86.7°C (188.1°F)

Melting Point: -87.1°C (-124.8°F)

Critical Temperature: Not available.

Specific Gravity: 1.4649 (Water = 1)

Vapor Pressure: 58 mm of Hg (@ 20°C)

Vapor Density: 4.53 (Air = 1)

Volatility: Not available.

Odor Threshold: 20 ppm

Water/Oil Dist. Coeff.: The product is equally soluble in oil and water; log(oil/water) = 0

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether, acetone.

Solubility:
Easily soluble in methanol, diethyl ether, acetone. Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity:
Extremely corrosive in presence of aluminum. Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
Acute oral toxicity (LD50): 2402 mg/kg [Mouse]. Acute dermal toxicity (LD50): 20001 mg/kg [Rabbit].

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified + (PROVEN) by OSHA. Classified A5 (Not suspected for human.) by ACGIH. The substance is toxic to kidneys, the nervous system, liver, heart, upper respiratory tract.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Passes through the placental barrier in human. Detected in maternal milk in human.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Trichloroethylene : UN1710 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Trichloroethylene California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Trichloroethylene Pennsylvania RTK: Trichloroethylene Florida: Trichloroethylene Minnesota: Trichloroethylene Massachusetts RTK: Trichloroethylene New Jersey: Trichloroethylene TSCA 8(b) inventory: Trichloroethylene CERCLA: Hazardous substances.: Trichloroethylene

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):
R36/38- Irritating to eyes and skin. R45- May cause cancer.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:54 PM

Last Updated: 11/01/2010 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MENORANDUM

DATE: December 5, 2008

TO: Files

TO: Legal

THROUGH: Kendal Stegmann, Senior Environmental Manager
Compliance and Enforcement Group

THROUGH: Rhonda Jeffries, Environmental Programs Manager
Compliance and Enforcement --- ROAT

THROUGH: Peer Review

FROM: Helen King, Environmental Programs Specialist
Compliance and Enforcement --- ROAT

cc: Mr. Bill Williams
Contact by Email

SUBJECT: Full Compliance Evaluation (FCE) at **Limco Airepair Inc.**
5304 S. Lawton Ave.
Tulsa, Tulsa County, Oklahoma
Section 35, T19N, and R12E
Directions: Taking Hwy 75 south. Exit on I-44 East; take the first access road exit before margining onto I-44. Turn right on the access road and the first street you come to is South Lawton. Turn left onto Lawton, and the plant is at the end of the street on the right.
AIRS ID #143-00155
FCE #04057

Introduction

On Tuesday November 18, 2008, between the hours of 0800 and 1050, an unannounced full compliance evaluation was conducted at the above referenced facility. Helen King, Environmental Programs Specialist, with the Oklahoma Department of Environmental Quality --- Air Quality Division in Tulsa conducted the evaluation. Mr. Bill William, Facility Manager and Mr. Dan Craft, Chief Operating Office, represented the facility. This facility was evaluated to determine its compliance with state and federal regulations and its State of Oklahoma Air Quality Permit #**99-026-O (M-2)** issued on May 24, 2004. The inspector provided proper credentials before entering the facility.

History and Process Description

Limco manufactures, repairs various sizes of heat exchangers, and repair various sized air ducts for commercial, military, and private aircraft (SIC 3728). Processes include but not limited to manufacturing, welding/soldering, sizing/shaping, coating, cleaning, and testing. The facility is equipped with a 12' x 12' paint booth using a high volume low pressure Finishline spray gun, a 400-gallon dipping tank containing a silicon/aluminum dip solution, five (5) natural gas ovens, and one trichloroethylene vapor degreaser.
The facility operates two (2) eight (8) hour shifts and employs 150 employees. The facility was established in 1946 and was originally named Long Island Metal Company.

Permit No.	**Date Issued**	**Reason**
99-026-O	01/14/2000	Initial Operating Permit
99-026-O (M-1)	10/31/2001	Combined two operating facilities into one
99-026-O (M-2)	05/24/2004	Modify emissions limits and update material

Emissions/Source Classification

This facility is classified a "synthetic minor" source for volatile organic compounds (VOCs) and hazardous air pollutants (HAPs). The HAPs are mostly trichloroethylene and toluene.

Reported Emissions**

Pollutant	**2005 TPY**	**% Change**	**2006 TPY**	**% Change**	**2007 TPY**
Volatile Organic Compounds (Non-HAP)	8.576	**-17.44**	7.08	**8.18**	7.711
Methyl isobutyl ketone	0.042	**-80.95**	0.008	**73.33**	0.03
Toluene	4.831	**-14.51**	4.13	**9.03**	4.54
Trichloroethylene	2.66	**7.00**	2.86	**4.67**	3.0
Xylenes (mixed isomers)	0.02	**81.48**	0.108	**-35.19**	0.07

**Data from annual emission inventories (Attachment B).
Decrease and increase in emissions for xylenes and methyl isobutyl ketone (MIBK) are the result of work practices.

State/Federal Regulatory Applicability

Oklahoma Air Pollution Control Rules

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas)
Part 7, Section 46 concerns coating of metals parts and products.
OAC 252:100-39-47
Per 49-46 (h), this facility is not subject to these rules because the VOC emissions from surface coating and cleaning do not exceed 10 TPY.

Federal Regulations

NESHAP, 40 CFR Part 63
Subpart T, (Halogenated Solvent Cleaners)
§63.460 Applicability and designation of source.

(a) The provisions of this subpart apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride, perchloroethylene, trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, or chloroform, or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent.

The vapor degreaser at this facility uses trichloroethylene as a solvent.

§63.466 Monitoring procedures

(a)(1) If a free board refrigeration device is used to comply with these standards, the owner or operator shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode.

This facility provided the set temperature of 214°F and the actual temperature of 181°F. No records or daily log sheets were provided to show compliance.

(b)(1) If a cover (working-mode, downtime-mode, and /or idling-mode cover) is used to comply with these standards, the owner or operator shall conduct a visual inspection to determine if the cover is opening and closing properly, completely covers the cleaning machine openings when closed, and is free of cracks, holes, and other defects.

The vapor degreaser was not in operation at the time of this evaluation but was properly covered. Mr. Tom Weyley demonstrated the opening and closing of the cover to the inspector.

(b)(2) If a dwell is used, the owner or operator shall determine the actual dwell time by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning.

The facility has never measured dwell time.

(c)(1) The owner or operator shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).

The facility has determined the hoist speed at sixteen (16) fpm (feet per minute) (Attachment D). The facility could not provide records or daily logs recording hoist speed.

(c)(2) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly.

The facility does not monitor the hoist speed monthly or quarterly per this permit.

§63.467 Recordkeeping requirements.

(a) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall maintain records in written or electronic form specified in paragraphs (a)(1) through (7) of this section for the lifetime of the machine.

This facility does not maintain records for the batch vapor degreaser. An operating manual and MSDS are kept onsite for the operator. The facility did not provide copies of the manual or MSDS to the inspector.

(a)(1) Owner's manuals, or if not available, written maintenance and operating procedures, the solvent cleaning machine and control equipment.

Mr. Weyley showed the inspector the maintenance and operating manual for the vapor degreaser. It is located at the equipment area along with the MSDS for trichloroethylene. The facility did not provide any records to the inspector.

(a)(3) If a dwell is used to comply with these standards, records of the tests required in §63.465(d) to determine an appropriate dwell time for each part or parts basket.

The facility has never tested to determine dwell time to comply with these standards.

(a)(5) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of this subpart.

The facility keeps records of monthly addition and removal of solvent from the cleaning machine (Attachment E). The records were incomplete.

(c)(1) The dates and amounts of solvent that are added to the solvent cleaning machine.

The facility does keep records of solvent addition to the cleaning machine (Attachment E).

(c)(2) The solvent composition of wastes removed from cleaning machines as determined using the procedure described in §63.465(c)(2).

The facility contracts with Reinco Environmental to transport and dispose of the solvent waste from the machine. The facility could not provide any test results for the waste.

(c)(3) Calculation sheets showing how monthly emissions and the rolling 3-month average emissions from the solvent cleaning machine were determined, and the results of all calculations.

The facility cannot provide a calculation sheet showing how monthly and rolling 3-month average emissions are calculated.

§63.468 Reporting Requirements

(f) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the requirements specified in paragraphs (f)(1) through (f)(3) of this section.

This facility has not submitted an annual report since January 26, 2005.

(f)(1) A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in §63.463(d)(1)."

The inspector spoke with Mr. Tom Weyley, the only operator for the cleaning machine. Mr. Weyley stated he was properly trained to operate the machine and showed the inspector the operating procedure in a binder on the desk.

(f)(2) An estimate of solvent consumption or each solvent cleaning machine during the reporting period.

The facility does not report this.

(f)(3) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.

The facility does not submit a report for MACT Subpart N.

(g) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.464 shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified in paragraphs (g)(1) through (g)(4) of this section.

The facility does not submit a solvent emission report annually.

(g)(1) The size and type of each unit subject to this subpart (solvent/air interface area or cleaning capacity).

The facility did not provide manufactures data for the cleaning machine to the inspector.

(g)(2) The average monthly solvent consumption for the solvent cleaning machine in kilograms per month.

The facility could not provide documentation of monthly solvent consumption.

(g)(3) The 3-month monthly rolling average solvent emission estimates calculated each month using the method as described in §63.465(c).

The facility could not provide the 3-monthly rolling average solvent emissions.

(g)(4) The reports required under paragraphs (f) and (g) of this section can be combined into a single report for each facility.

The facility does not submit this report to the Department.

(h) Each owner or operator of a batch vapor or in-line solvent cleaning machine shall submit an exceedance report to the Administrator semiannually except when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs (h)(1) through (3) of this section.

This facility has not submitted a semiannual exceedance report for the solvent cleaning machine since January 26, 2005.

(h)(1) Information on the actions taken to comply with §63.463 (e) and (f). this information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

The facility stated maintenance and repair has been done on the cleaning machine but not reported to the Department.

(h)(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

This facility has not reported an exceedance.

(h)(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

This facility does not submit a report to the Department.

(i)An owner or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs (i0(1) through (i)(3) of this section are met.

This facility has not submitted an exceedance report since January 26, 2006.

(i)(1) The source has demonstrated a full year of compliance without an exceedance.

The inspector did not receive or review any documentation showing a full year of compliance.

(i)(2) The owner or operator continues to comply with all relevant recordkeeping and monitoring requirements specified subpart A (General Provisions) and in this subpart.

This facility is in non-compliance for all recordkeeping and monitoring of equipment specified in subpart A and subpart T.

(i)(3) The Administrator does not object to a reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of subpart A (General Provisions).

The Administrator never received a letter from the facility requesting reduce frequency of reporting.

Evaluation/Enforcement History

FCE #01293 conducted on 12/30/03. No violations found.
PCE #00042 conducted on 10/24/01. Initial compliance evaluation.

Enforcement Case #422, opened 04/26/99 and closed 09/13/2000, was for operating without a permit.

Annual Compliance Certifications/Semiannual Reports

This facility is not subject to ACCs or SARs. They are subject to a semiannual report for NESHAP Subpart T.

Excess Emissions

No excess emissions have been reported from this facility.

On-Site Evaluation

The inspector was greeted in the lobby of the facility by Mr. Williams and escorted to a conference area. Mr. Craft joined us for the discussion of the permit and subpart T. The inspector explained the purpose of the evaluation and requested to review records. This facility has not been evaluated since 2003 and Mr. Williams and Mr. Craft were unaware of the required records or reporting. Mr. Craft stated the facility has tried a non-solvent degreaser called EnSolv but found it didn't work as well so the facility went back to using trichloroethylene. Mr. Craft also stated the facility plans to upgrade the vapor degreaser next year and try using a non-solvent degreaser again. On November 20, 2008, the inspector spoke with Mr. Greg Steele, Consultant for the facility. Mr. Steele was under the impression the facility had changed to a non-solvent cleaner and was no longer required to submit Subpart T reports. The facility does submit annual emission inventories with trichloroethylene listed as a pollutant (Attachment B). Mr. Williams and Mr. Craft escorted the inspector on the physical tour of the facility. The paint booth is a 12'X 12" enclosed room. The filtering system is two stages. The paint booth was operating with the door shut. No spraying was being conducted in the booth. The pressure magnehilic showed 0.10 inches of H_20 through the filters. A Finishline HPLV spray gun is used when coating. The filters look clean and new. Mr. Williams stated the facility contracts with Red Bud filtering company to monitor and change the filters. No rags or solvent containers were exposed to the atmosphere. All paint and solvent containers were locked in yellow chemical storage cabinets. Different parts depending on the metal alloy are cleaned either by handwipe or by degreaser. The metal alloy determines how long the part(s) are in the degreaser. The degreaser was not in operation at the time of this inspection. The inspector observed the cover was closed and properly attached to the unit. The area was clean of any solvent. The inspector spoke with Mr.

Tom Weyley, degreaser operator concerning record keeping. Mr. Weyley showed the inspector the record logs for parts to be cleaned. Maintenance and operating manual are kept in the area along with the MSDS for trichloroethylene. Solvent usage is reported for inventory purposes. The degreaser was equipped with a chiller, correct freeboard, hoist and emergency power switch. After cleaning the parts are dried in natural gas ovens. The inspector observed the cleaning tanks containing different chemicals for cleaning and etching. The parts are rinsed with water and dried in ovens before coating processes. A small enclosed room contains the dip tank. The 400-gallon dip tank is used to coat parts with silicone/aluminum and left to dry over the dip tank. The parts are left to dry over the dip tank. This room vents to the outside with fresh air vented back in. The recordkeeping and reporting issues were discussed before the inspector left the facility.

Specific Condition for Permit #99-026-O (M-2)

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	**POLLUTANT**	**Permit Limits**	
		PPH	**TPY**
Dip Coat	Toluene	2.40	5.1
	Xylene	0.19	0.40
	805 Resin	0.20	0.43
Degreaser	Trichloroethylene	1.50	3.20
Wipe	MEK	3.20	6.80
Testing	Mineral Spirits	0.53	1.20
Wipe	IPA	0.82	1.80
Paint	Various	0.22	0.50

Reported Emissions*

Emission Points	**Pollutant**	**2005 TPY**	**2006 TPY**	**2007 TPY**
Wipedown	Volatile Organic (non-HAPs)	7.76	4.90	4.77
Vapor Degreaser	Tricholoethylene	2.66	2.86	3.0
	Volatile Organics (non-HAP)	-0-	-0-	2.2
Paint Booth	Volatile Organic (non-HAPs)	0.316	0.31	0.091
	Toluene	0.051	0.03	0.03
	Xylene	NR**	0.03	0.03
	Methyl isobutyl ketone	0.042	0.008	0.03
Dip Coating	Toluene	4.78	4.10	4.51

	Volatile Organics (non-HAP)	-0-	-0-	0.06
Testing	Volatile Organics (non-HAP)	0.5	1.87	0.59
	Xylenes	0.02	0.078	0.04

*Data taken from annual emission inventories (Attachment B)
NR -- Not Reported
Annual emission inventories submitted to the Department show the facility to be in compliance with emission permit limits.

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD (1)	GPY
Toluene	5.4	1,400
Xylene	0.43	110
805 Resin	0.60	157
Trichloroethylene	2.00	520
MEK	7.70	2,000
Mineral Spirits	1.37	355
IPA	2.04	530
Paints, various	0.39	100

(1) These gallons/day are work-week averages.

The facility could not provide material usage records to the inspector for the period requested.

2. Alternate products and production quantities can be varied under the following conditions.

   a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
   b. A change in either production or products is permitted provided there would be no increase in the quantity of the resulting emissions. Additionally, the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC 252:100-41.
   c. The facility shall notify the DEQ in writing 30 days before making any operational changes that would cause significant air emissions.
   d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

The facility is in non-compliance for failure to maintain written documentation to show compliance.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ regional Office at Tulsa.

The facility does not keep proper records for the degreaser. Subpart T compliance and exceedance semiannual reports DEQ Forms #100-432, #100-435, #100-436 and #100-437 have not been submitted to the Department since January 26, 2006.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

    a. The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.
    b. The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.
    c. Since Limco, has chosen Option 1 for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio no less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this subpart would be a better choice, Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.
    d. Limco will properly train each person who will operate the degreaser before they are allowed to use the machine. The written syllabus used for training will be readily available to each trained operator.

The degreaser was not in operation at the time of this inspection therefore the inspector was unable to determine compliance with Specific Condition #4 (a)(b), and (c).

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

    a. Records sufficient to demonstrate that the weekly average of the product usages do not exceed those shown in Specific Condition #1, Table No. 2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded than compliance with that pollutant's MAAC must be demonstrated.

The facility was unable to provide records sufficient to demonstrate weekly average of product usage. The inspector was unable to determine compliance with Specific #1.

b. Degreaser records required by Specific Condition #3.
The facility keeps some maintenance and operation procedures on site.

c. Material usages (monthly and 12-month rolling totals).
The facility does not keep records of material usage (monthly and 12-month rolling totals.

6. This permit supersedes all previous permits for this facility, which are now null and void.

Exit Interview and Summary
The inspector reviewed the necessary records for the facility to the gentlemen. The facility did provide an MSDS for "EnSolv-GCS Degreaser Solvent" (Attachment C). This is a non-trichloroethylene solvent tested in the degreaser but not used.

Based on the information provided or obtained during this evaluation, the following violations or deviations were discovered during this evaluation.

- The facility is in non-compliance with the specific conditions #1 thru #5 of permit #99-026-O (M-2).

- The facility is in non-compliance with NESHAP 40 CFR 63 Subpart T, National Emissions Standards for Hazardous Air Pollutants for Source Categories.

An alternative enforcement letter will be sent to the facility along with this FCE report.

Attachments
A) Air Quality Operating Permit #99-026-O (M-2)
B) Annual Emission Inventories
C) MSDS
D) Vapor Degreaser Temperature and Hoist Speed
E) Vapor Degreaser Fluid Usage Log

ATTACHMENT A

OKLAHOMA DEPARTEMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

MEMORANDUM **May 24, 2004**

TO: Dawson F. Lasseter, P.E., Chief Engineer, Air Quality

THROUGH: Richard Kienlen, P.E., Engr. Mgr. II, New Source Permits Section

THROUGH: Hal Wright, Regional Office At Tulsa

FROM: Jennifer Tyler, Regional Office At Tulsa

SUBJECT: Evaluation of Permit Application No. **99-026-O (M-2)**
Limco-Airepair, Inc. (LA)
5304 S. Lawton Ave.
Tulsa, Tulsa County, OK
Section 35, Township 19N, Range 12E
Directions: Taking Hwy 75 south you exit on I-44 East, take the first access road exit before merging onto I-44. Turn right on the access road and the first street you come to is South Lawton. Turn left onto Lawton, and the plant is at the end of the street on your right.

INTRODUCTION

Limco-Airepair, Inc. (LA) is requesting a modification of their current Operating Permit No. 99-026-O (M-1). The modification will include adding Xylene to Table No. 2 to correlate with Table No. 1, changing the wording of perchloroethylene to read trichloroethylene, and increasing the use of toluene, mineral spirits, IPA, and various paints.

PROCESS DESCRIPTION

In general, the plant has three product activities, i.e., the manufacture of different sizes of heat exchangers, the repair of various sizes of heat exchangers, and the repair of various sized aircraft air ducts.

Manufacturing Process

All ovens used for drying and soldering have a combined heat rate of 0.80 MMBTUH.

First, LA buys thin sheets of aluminum and stainless steel to use in the manufacture and repair of various products.

The steps in the manufacture of the heat exchangers are: material is cut, shaped, cleaned, welded/assembled, pressure tested, cleaned, heat dried, and coated. LA is required to test most of

the heat exchangers that are of a new design. The new units are performance tested for flow vs pressure drop of both the cooling medium (air) over the outside of the heat exchanger, and the medium to be cooled (engine lube oil, hydraulic fluid, etc.) which is on the inside of the exchanger. They are also tested for their heat transfer capabilities.

The steps in the repair of the heat exchangers are: inspected for flaws, repaired as necessary, pressure tested, cleaned, heat dried, and coated.

The steps in the repair of the air ducts are: inspected for flaws, cleaned, heat dried, repairs made, cleaned, and coated.

WELDING/SOLDERING

Various types of welding are used by LA, i.e., MIG, TIG, etc.

The soldering is done by placing assembled, "tinned" parts in natural gas fired ovens. Tinning is a process where the part is coated with the required amount of solder/flux on each joint to be soldered. The part is then heated to a temperature just above the melting point of the solder to allow the solder to melt and flow into the joint to be soldered. The part is then cooled to room temperature in ambient air.

SIZING/SHAPING

This is done with conventional sheet metal shears, sheet metal brakes, stamping machines, etc.

COATING

All products are cleaned and heat dried before coating.

The parts may get some combination of four types of coatings, i.e. paint, alodine, anodize, or silicone aluminum dip. Anodizing is done by an outside contractor; all others are done by LA.

Less than 10% of all products are spray-painted. The painting is done in a totally enclosed 12' x 12' x 8' high paint booth using a high volume low pressure spraying rig. The paint over-spray is sucked through a 95% efficient dry type filter at 3,500 acfm and exhausts 8 feet above grade through a 12-inch diameter duct.

The alodine process is done by soaking the part in a bath of nitric/chromic acid, which results in the desired surface getting a coat of aluminum oxide. This process does not use heat or electric current.

Silicone/Aluminum Dip solution consists of 8.4 gallons of Toluene, 1.0 gallon of Dow #805 silicone resin, and 1.6 pounds of aluminum powder. 61.5 gallons of this solution is placed in a 400-gallon dipping tank that is located in a totally enclosed room (10 ft x 12 ft x 10 ft high) within the shop. After the part is dipped (the part is completely coated) it is hung over the tank to drip and dry. The result is the part gets a thin coat of aluminum filled silicone. The air in the dipping room

is exhausted to the outside by a 22,000 acfm fan through a dry type filter in a 14 inch diameter duct at 10 ft above grade.

Anodizing is a process where a surface on the part gets a coating of aluminum by an electrolysis process. The part is made an anode as part of an electric circuit in a bath of acid, and as a result aluminum is deposited on the part's surface.

CLEANING

Parts are cleaned by different chemicals at different stages in the manufacturing/repair processes. The parts can be cleaned by hand wiping with solvents, acid, or caustic bath followed by water rinse or trichloroethylene degreaser.

The parts are dried after the cleaning process by electric heated ovens or natural gas fired ovens.

The facility operates 16 hours per day, 5.5 days per week, and 22 days a month, or 4,224 hours per year.

EMISSIONS

The significant air emissions are from the hand wiping of parts with solvents and coating. The air emissions from parts drying (combustion of natural gas), welding, and metal sizing/shaping are negligible, and will not be included in the following emissions analysis.

Purchases of acids and caustics used in the clean lines have been tabulated in the application. The replacement numbers are below any *de minimis* threshold. Much of the material is consumed in the cleaning operations, either through chemical combination with materials presented or through action as a flocculent. Potential emissions are negligible.

Limco estimates the use of trichloroethylene for the degreaser to be 520 gallons per year, which is shown in the following emission table. This includes material that was collected for reclamation. The emissions shown are the net amounts. The vapor degreaser holds 110 gallons of trichloroethylene and has a freeboard ratio of 1.3.

Materials used in cleaning and wipe down of the parts include 2,000 gallons per year (GPY) of MEK and 530 GPY of isopropyl alcohol. The use of mineral spirits in pressure testing is estimated to be 355 GPY. The facility uses 95 gallons of ten different primers, topcoats and solvents.

The following tables show the total facility VOC and HAPs emissions.

FACILITY TOTAL EMISSIONS [2]

USE	POLLUTANT	CAS NO.	HAP	CAT	De minimis		Permit limits	
					PPH	TPY	PPH	TPY
Dip Coat	Toluene	108883	Y	C	5.60	6.00	2.40	5.10
	Xylene	133027	Y	C	5.60	6.00	0.19	0.40
Degreaser	Trichloroethylene	79016	Y	A	0.57	0.60	1.50	3.20
Wipe	MEK	108101	N	C	5.60	6.00	3.20	6.80 [3]
Testing	Mineral Spirits	64742887	N	C	5.60	6.00	0.53	1.20
Wipe	IPA	67630	N	C	5.60	6.00	0.82	1.80
Paint [1]	Various	Various	NA	NA	(2)	(2)	0.22	0.50
TOTAL VOC								**19.00**
TOTAL HAPS								**8.70**

(1) If all the paint VOCs were Cat. A the de minimis would not be exceeded. (2) Does not include combustion emission pollutants, which are negligible. (3) EPA Screen3 modeling shows a maximum ground level concentration of 1,259 micrograms per cubic meter (ug/m^3) for an emission rate of 3.2 pounds per hour as compared to an allowable maximum acceptable ambient concentration (MAAC) of 59,000 ug/m^3.

The following table shows the VOC emission data comparison between the new permit and the existing permit in TPY.

Pollutant	Existing	New	Change
Paint	0.56	0.50	-0.06
Trichloroethylene	3.00	3.20	+0.20
Cleaning	7.50	6.80	-0.70
Testing	2.50	1.20	-1.30
Dip: Toluene	5.00	5.10	+0.10
Xylene	0.36	0.40	+0.04
Total	**18.92**	**17.20**	**-1.72**

OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions) [Applicable]
Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
Subchapter 3 enumerates the primary and secondary ambient air quality standards and the significant deterioration increments. At this time, all of Oklahoma is in "attainment" of these standards.

OAC 252:100-4 (New Source Performance Standards) [Not Applicable]
Federal regulations in 40 CFR Part 60 are incorporated by reference as they exist on July 1, 2002, except for the following: Subpart A (Sections 60.4, 60.9, 60.10, and 60.16), Subpart B, Subpart C, Subpart Ca, Subpart Cb, Subpart Cc, Subpart Cd, Subpart Ce, Subpart AAA, and Appendix G. These requirements are addressed in the "Federal Regulations" section.

OAC 252:100-5 (Registration, Emission Inventory and Annual Operating Fees) [Applicable]
Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants. An emission inventory was submitted and fees paid for previous years as required.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
Subchapter 7 sets forth the permit application fees and the basic substantive requirements of permits for minor facilities. Since criteria pollutant emissions are less than 100 TPY for each pollutant, and emissions of HAPs will not exceed 10 TPY for any one HAP or 25 TPY for any aggregate of HAPs, the facility is defined as a minor source. As such, BACT is not required.

OAC 252:100-9 (Excess Emissions Reporting Requirements) [Applicable]
In the event of any release which results in excess emissions, the owner or operator of such facility shall notify the Air Quality Division as soon as the owner or operator of the facility has knowledge of such emissions, but no later than 4:30 p.m. the next working day. Within ten (10) working days after the immediate notice is given, the owner or operator shall submit a written report describing the extent of the excess emissions and response actions taken by the facility.

OAC 252:100-13 (Prohibition of Open Burning) [Applicable]
Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this subchapter.

OAC 252:100-19 (Particulate Matter (PM)) [Applicable]
Section 19-4 regulates emissions of PM from new and existing fuel-burning equipment. AP-42 (7/98) Table 1.4 -1 lists natural gas TPM emissions to be 7.6 lbs/million scf or about 0.0076 lbs/MMBTU, which is in compliance.

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]
No discharge of greater than 20% opacity is allowed except for short-term occurrences that consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Based on past experience with this facility, the potential for violating the standards is negligible.

OAC 252:100-29 (Fugitive Dust) [Applicable]
No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originated in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or to interfere with the maintenance of air quality standards. Under normal operating conditions, this facility

has negligible potential to violate this requirement; therefore it is not necessary to require specific precautions to be taken.

OAC 252:100-31 (Sulfur Compounds) [Applicable]
Fuel-burning equipment at this facility uses commercial natural gas. The AP-42 (2/98), Table 1.4-2 emission factor of 0.6 pounds of SO_2 per million cubic feet equates to approximately 0.0006 lbs/MMBTU. This is well below the new equipment standard of 0.2 lbs/MMBTU for gas fuel.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]
This subchapter limits new gas-fired fuel-burning equipment with rated heat input greater than or equal to 50 MMBTUH to emissions of 0.2 lbs of NO_x per MMBTU, three-hour average. There are no equipment items that exceed the 50 MMBTUH threshold.

OAC 252:100-35 (Carbon Monoxide) [Not Applicable]
None of the following affected processes are located at this facility: gray iron cupola, blast furnace, basic oxygen furnace, petroleum catalytic cracking unit, or petroleum catalytic reforming unit.

OAC 252:100-37 (Volatile Organic Compounds) [Not Applicable]
-15 Storage of VOCs. This facility does not store any hydrocarbon liquids, and is not an affected source under this section.
-36 Fuel-Burning Equipment. Under this section Limco is required to adjust the burners for essentially complete fuel combustion. Limco-Airepair burns only commercial-grade natural gas in the combustion units, which promotes compliance. The facility anticipates remaining in compliance under normal operations.
-25 This section limits the VOC content of coating used in coating lines or operations for any facility with VOC emissions in excess of 100 lbs/day. Coating parts operations will consume less than 50 pounds of VOC per day, so the facility is exempt.

OAC 252:100-39 (VOC in Nonattainment and Former Nonattainment Areas) [Applicable]
Part 7, Sections 46 concerns coating of metal parts and products. Per 39-46 (h), Limco is exempt as the VOC emissions from surface coating and cleaning do not exceed 10 TPY.

OAC 252:100-41 (Hazardous Air Pollutants and Toxic Air Contaminants) [Applicable]
Part 3 addresses hazardous air contaminants. NESHAP, as found in 40 CFR Part 61, are adopted by reference as they exist on July 31, 2002, with the exception of Subparts B, H, I, K, Q, R, T, W and Appendices D and E, all of which address radionuclides. In addition, General Provisions as found in 40 CFR Part 63, Subpart A, and the Maximum Achievable Control Technology (MACT) standards as found in 40 CFR Part 63, Subparts F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, CCCC, GGGG, HHHH, NNNN, SSSS, TTTT, UUUU, VVVV, and XXXX are hereby adopted by reference as they exist on July 31, 2002. These standards apply to both existing and new sources of HAPs. These requirements are covered in the "Federal Regulations" section.

Part 5 is a **state-only** requirement governing toxic air contaminants. New sources (constructed after March 9, 1987) emitting any category "A" pollutant above de minimis levels must perform a BACT analysis, and if necessary, install BACT. All sources are required to demonstrate that emissions of any toxic air contaminant that exceed the de minimis level do not cause or contribute to a violation of the maximum acceptable ambient concentration (MAAC). There are two toxics that exceed their de minimis, MEK and Trichloroethylene. Trichloroethylene is a HAP and Category A toxic generated by the vapor degreaser, which is subject to a Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart T. As such, Trichloroethylene is exempt from this part per §41-43(a)(3). Screen3 modeling for MEK has a ground-level concentration of 1,259 $\mu g/m^3$ as compared to a MAAC of 59,000 $\mu g/m^3$. This facility is in compliance.

OAC 252:100-43 (Testing, Monitoring, and Recordkeeping) [Applicable]
This subchapter provides general requirements for testing, monitoring and recordkeeping and applies to any testing, monitoring or recordkeeping activity conducted at any stationary source. To determine compliance with emissions limitations or standards, the Air Quality Director may require the owner or operator of any source in the state of Oklahoma to install, maintain and operate monitoring equipment or to conduct tests, including stack test, of the air contaminant source. All required testing must be conducted by methods approved by the Air Quality Director and under the direction of qualified personnel. A notice-of-intent to test and a testing protocol shall be submitted to Air Quality at least 30 days prior to any EPA Reference Method stack tests. Emissions and other data required to demonstrate compliance with any federal or state emission limit or standard, or any requirement set forth in a valid permit shall be recorded, maintained, and submitted as required by this subchapter, an applicable rule, or permit requirement. Data from any required testing or monitoring not conducted in accordance with the provisions of this subchapter shall be considered invalid. Nothing shall preclude the use, including the excusive use, or any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.

FEDERAL REGULATIONS

PSD, 40 CFR Part 52 [Not Applicable]
PSD does not apply. Final total emissions are less than the threshold of 250 TPY of any single regulated pollutant and the facility is not one of the 26 specific industries with a threshold of 100 TPY.

NSPS, 40 CFR Part 60 [Not Applicable]
There are no sources or facilities at this site affected by any NSPS subpart.

NESHAP, 40 CFR Part 61 [Not Applicable]
There are no emissions of any of the regulated pollutants: arsenic, asbestos, benzene, beryllium, coke oven emissions, mercury, radionuclides, or vinyl chloride.

NESHAP, 40 CFR Part 63 [Subpart T Applicable]
Subpart T (Halogenated Solvent Cleaners). This standard was published in the Federal Register on December 2, 1994, and compliance by new degreasers was required immediately upon startup. The facility is an area source subject to Subpart T, and has complied with the initial notification requirement. A yearly report is required to be sent to the local DEQ office and an additional report concerning any emergency operation which was not in compliance, also sent to the local DEQ office. The first annual report was due on January 15, 2001, and every 12 months thereafter. The applicant has selected Option 1 from Table 1 of §63.463 to demonstrate compliance. This option requires a combination of a working-mode cover, freeboard ratio of 1.0, and superheated vapor. The applicant is in compliance.
Subpart GG (Aerospace Manufacturing and Rework Facilities). The facility engages in the type of activity described in paragraph 63.741 (a), but the facility does not qualify as a major source under the definition in 40 CFR 63.2. In addition, the subassemblies involved are not critical to structural integrity or flight performance, so the activities would also be excluded under §63.741(f). The facility is not an affected source and is not subject to this subpart.

Chemical Accident Prevention Provisions, 40 CFR Part 68 [Not Applicable]
This facility does not process or store more than the threshold quantity of any regulated substance (Section 112r of the Clean Air Act 1990 Amendments). More information on this federal program is available on the web page: www.epa.gov/ceppo.

Stratospheric Ozone Protection, 40 CFR Part 82 [Not Applicable]
This facility does not produce, consume, recycle, import, or export any controlled substances or controlled products as defined in this part, nor does this facility perform service on motor (fleet) vehicles that involves ozone-depleting substances. Therefore, as currently operated, this facility is not be subject to these requirements. To the extent that the facility has air-conditioning units that apply, the permit requires compliance with Part 82.

COMPLIANCE

Tier Classification and Public Review

This application has been classified as **Tier I** based on the request for an operating permit for an existing minor source. The status of all permit actions is available to the public in the Air Quality section of the DEQ Web Page at page: www.deq.state.ok.us

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owns the real property.

Inspection

No inspection was performed on this facility because the facility did not remove or construct any new equipment. The modification requested was an increase in usage and a change in wording only.

Fee Paid

Permit modification fee of $500 was paid on February 20, 2004.

SUMMARY

There are no active Air Quality compliance or enforcement issues that would affect the issuance of this permit. Issuance of the modified operating permit is recommended.

PERMIT TO OPERATE
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS

Limco-Airepair **Permit No. 99-026-O (M-2)**
Aircraft Subassembly Manufacturing and Repair

The permittee is authorized to operate in conformity with the specifications submitted to Air Quality on February 20, 2004. The Evaluation Memorandum dated May 24, 2004, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein.

1. Points of emission include the cleaning, degreasing, painting, and other coating areas. The significant emissions from all sources are listed below.

Table No.1

USE	POLLUTANT	Permit Limits	
		PPH	TPY
Dip Coat	Toluene	2.40	5.1
	Xylene	0.19	0.40
	805 Resin	0.20	0.43
Degreaser	Trichloroethylene	1.50	3.20
Wipe	MEK	3.20	6.80
Testing	Mineral Spirits	0.53	1.20
Wipe	IPA	0.82	1.80
Paint	Various	0.22	0.50

The emissions shown in the preceding table will not be exceeded under normal operating conditions provided the facility's use of materials shown in the following table is not exceeded.

Table No. 2

Materials	GPD (1)	GPY
Toluene	5.4	1,400
Xylene	0.43	110
805 Resin	0.60	157
Trichloroethylene	2.00	520
MEK	7.70	2,000
Mineral Spirits	1.37	355
IPA	2.04	530
Paints, various	0.39	100

(1) These gallons/day are work-week averages.

2. Alternate products and production quantities can be varied under the following conditions.

    a. Emissions do not exceed 10 TPY for a single HAP or 25 TPY of the HAPs aggregate.
    b. A change in either production or products is permitted provided there would be no increase in the quantity of the resulting emissions. Additionally, the use of alternate products shall not cause the total of each toxic to exceed the de minimis levels or the MAAC established by OAC 252:100-41.
    c. The facility shall notify the DEQ in writing 30 calendar days before making any operational changes that would cause significant air emissions.
    d. Maintain written documentation to show compliance with all current Federal, State and Local Regulations, Rules, and Codes, including modeling where compliance with a MAAC may be in question.

3. The degreaser is subject to NESHAP (40 CFR 63) Subpart T, Standards for Halogenated Solvent Cleaning, as published in the Federal Register on December 2, 1994, and shall be in compliance with this federal NESHAP, specifically with Option 1 of Table 1 of 40 CFR 63.463. All required reports shall be sent to the DEQ Regional Office at Tulsa.

4. The permittee shall comply with the following outlined provisions for operation of the degreaser, which are further detailed in OAC 252:100-39-42(b).

    a. The degreaser "working mode cover" shall operate easily and cause minimum disturbance to the vapor zone.

    b. The unit shall have safety switches to shut off sump heat if the coolant is not circulating or exceeds the recommended level.

    c. Since Limco has chosen Option 1 for Halogenated Degreasers shown in 40 CFR 63, Subpart T, the unit shall have a freeboard ratio not less than 1.0, a solvent super heater which shall maintain the solvent to a temperature no less than 10 degrees F above the boiling point of the solvent, and have a working mode cover. If, in the future, Limco decides one of the other options available in this subpart would be a better choice, Limco shall submit a written request describing their plan to the DEQ local office, and will not begin any change without written permission.

    d. Limco will properly train each person who will operate the degreaser before they are allowed to use the machine. The written syllabus used for training will be readily available to each trained operator.

5. All records necessary to demonstrate compliance with permit conditions shall be maintained on-site or at a readily accessible location for a period of at least two years following the date of recording and shall be available for review by regulatory personnel during normal business hours. Such records include, but are not necessarily limited to, the following.

    a. Records sufficient to demonstrate that the weekly averages of the product usages do not exceed those shown in Specific Condition #1, Table No.2 (exclusive of the vapor degreaser). If any of the GPD quantities in Table No. 2 are exceeded then compliance with that pollutant's MAAC must be demonstrated.
    b. Degreaser records required by Specific Condition #3.
    c. Material usages (monthly and 12-month rolling totals).

6. This permit supercedes all previous permits for this facility, which are now null and void.

PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON STREET, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Issuance Date: _____ **Permit Number:** 99-026-O (M-2)

Limco-Airepair, Inc.,

having complied with the requirements of the law, is hereby granted permission to operate the facility to manufacture and repair aircraft parts at 5304 S. Lawton Avenue, Tulsa County, Oklahoma,

subject to the following conditions, attached:

[X] Standard Conditions dated October 31, 2003

[X] Specific Conditions

_____ Chief Engineer, Air Quality Division

Mr. Michael Lowther, Operations Manager
Limco-Airepair, Inc.
5304 S. Lawton Ave.
Tulsa, OK 74107

Re: Operating Permit No. **99-026-O (M-2)**
Limco-Airepair, Inc.

Dear Mr. Lowther:

Enclosed is the permit authorizing operation of the referenced facility. Please note that this permit is issued subject to standard and specific conditions, which are attached. These conditions must be carefully followed since they define the limits of the permit and will be confirmed by periodic inspections.

Also note that you are required to annually submit an emissions inventory for this facility. An emissions inventory must be completed on approved AQD forms and submitted (hardcopy or electronically) by March 1st of every year. Any questions concerning the form or submittal process should be referred to the Emissions Inventory staff at 405-702-4100.

Thank you for your cooperation in this matter. If we may be of further service, please contact our office at (918) 293-1600. Air Quality personnel are located in the DEQ Regional Office at Tulsa, 3105 East Skelly Drive, Suite 200, Tulsa, Oklahoma, 74105.

Sincerely,

Jennifer Tyler
AIR QUALITY DIVISION

enclosure

ATTACHMENT B

AIR EMISSIONS INVENTORY TRENDS

Air Quality Division, Dept. of Environmental Quality, PO Box 1677, OKC, OK 73101-1677, (405) 702-4100

Company Name: LIMCO AIREPAIR INC AND AERODUCT

3620 5304 S LAWTON AVE

Inventory Year	Pollutant	Amount (Tons)	CAS
2005			
	* Volatile Organics (non-HAP)	8.576	
	Methyl isobutyl ketone	0.042	108101
	Toluene	4.831	108883
	Trichloroethylene	2.66	79016
	Xylenes (mixed isomers)	0.02	1330207
2006			
	* Volatile Organics (non-HAP)	7.08	
	Methyl isobutyl ketone	0.008	108101
	Toluene	4.13	108883
	Trichloroethylene	2.86	79016
	Xylenes (mixed isomers)	0.108	1330207
2007			
	* Volatile Organics (non-HAP)	7.711	
	Methyl isobutyl ketone	0.03	108101
	Toluene	4.54	108883
	Trichloroethylene	3	79016
	Xylenes (mixed isomers)	0.07	1330207

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions: Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: MCDONALD, BOB
Phone: (918) 445-4300
Fax:

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	7.711	
Methyl isobutyl ketone	0.03	108101
Toluene	4.54	108883
Trichloroethylene	3	79016
Xylenes (mixed isomers)	0.07	1330207

POINTS

Seq.	Name	Status	UTMH	UTMV
1	Wipedown	Active	239.421	3982.281
2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	Dip Coating	Active	239.421	3982.281
5	Testing	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	5.10	0.001	Tons	4992	16	6	40188805	N
2	Petroleum and Solvent Evaporatio	7.20	0.001	Tons	4992	16	6	40188805	N
3	Petroleum and Solvent Evaporatio	0.60	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	4.90	0.001	Tons	4992	16	6	40100398	N
5	Petroleum and Solvent Evaporatio	1.00	0	Tons	4992	16	6	40188805	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	4.77	9.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
2	Trichloroethylene	3	3.2	Mass Balance	Vapor Recover	99.00%	* Uncontrolled	0.00%
2	* Volatile Organics (non-HAP)	2.2	3	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	* Volatile Organics (non-HAP)	0.091	0.56	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Xylenes (mixed isomers)	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Toluene	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Methyl isobutyl ketone	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	Toluene	4.51	5.1	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	* Volatile Organics (non-HAP)	0.06	5.36	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	* Volatile Organics (non-HAP)	0.59	2.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	Xylenes (mixed isomers)	0.04	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

2006 TEAM ID 3620

LIMCO AIREPAIR INC AND AERODUCT
5304 S LAWTON AVE

Wednesday, July 30, 2008
Updated: 4/3/2008

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions:
Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: MCDONALD, BOB
Phone: (918) 445-4300
Fax:

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	7.08	
Methyl isobutyl ketone	0.008	108101
Toluene	4.13	108883
Trichloroethylene	2.86	79016
Xylenes (mixed isomers)	0.108	1330207

POINTS

Seq.	Name	Status	UTMH	UTMV
1	Wipedown	Active	239.421	3982.281
2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	Dip Coating	Active	239.421	3982.281
5	Testing	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annnal Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	6.20	0.001	Tons	4992	16	6	40188805	N
2	Petroleum and Solvent Evaporatio	4.70	0.001	Tons	4992	16	6	40188805	N
3	Petroleum and Solvent Evaporatio	0.60	0	Tons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	6.10	0.001	Tons	4992	16	6	40100398	N
5	Petroleum and Solvent Evaporatio	2.20	0	Tons	4992	16	6	40188805	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	4.9	9.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
2	Trichloroethylene	2.86	3.2	Mass Balance	Vapor Recover	99.00%	* Uncontrolled	0.00%
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	* Volatile Organics (non-HAP)	0.31	0.56	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Xylenes (mixed isomers)	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Toluene	0.03	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Methyl isobutyl ketone	0.008	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	Toluene	4.1	5.1	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	* Volatile Organics (non-HAP)	0	5.36	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	* Volatile Organics (non-HAP)	1.87	2.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	Xylenes (mixed isomers)	0.078	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

Address: 5304 S LAWTON AVE
TULSA OK 74107

Status: Active
Class: MN
SIC: 3728

Directions: Behind Pepsi Plant off I-44 west of the river

Responsible Official
Contact: MCDONALD, BOB
Phone: (918) 445-4300
Fax:

County: TULSA
Sub:
Section: 35
Town: 19N
Range: 12E

UTM Zone: 15
Horizontal: 239.421
Vertical: 3982.281

EMISSIONS

Pollutant	Estimated (tons)	Cas No.
* Volatile Organics (non-HAP)	8.576	
Methyl isobutyl ketone	0.042	108101
Toluene	4.831	108883
Trichloroethylene	2.66	79016
Xylenes (mixed isomers)	0.02	1330207

POINTS

Seq.	Name	Status	UTMH	UTMV
1	Wipedown	Active	239.421	3982.281
2	Vapor Degreaser	Active	239.421	3982.281
3	Paint Booth	Active	239.421	3982.275
4	Dip Coating	Active	239.421	3982.281
5	Testing	Active	239.421	3982.281

PROCESSES

Seq#	Description	Annual Rate	Hourly	Units	Hr/Yr	Hr/Day	Day/Wk	SCC	Conf.
1	Petroleum and Solvent Evaporatio	8.90	0.001	Tons	4992	16	6	40188805	N
2	Petroleum and Solvent Evaporatio	4.30	0	Tons	4992	16	6	40188805	N
3	Petroleum and Solvent Evaporatio	0.60	0	Gallons	4992	16	6	40200101	N
4	Petroleum and Solvent Evaporatio	5.90	0.001	Gallons	4992	16	6	40100398	N
5	Petroleum and Solvent Evaporatio	0.50	0	Tons	4992	16	6	40188805	N

CONTROLS

Point#	Pollutant	Estimated	Allowed	Est. Method	Control 1	Eff1%	Control 2	Eff2%
1	* Volatile Organics (non-HAP)	7.76	9.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
2	Trichloroethylene	2.66	3.2	Mass Balance	Vapor Recover	99.00%	* Uncontrolled	0.00%
2	* Volatile Organics (non-HAP)	0	3	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	* Volatile Organics (non-HAP)	0.316	0.56	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Toluene	0.051	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
3	Methyl isobutyl ketone	0.042	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	Toluene	4.78	5.1	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
4	* Volatile Organics (non-HAP)	0	5.36	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	* Volatile Organics (non-HAP)	0.5	2.5	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%
5	Xylenes (mixed isomers)	0.02	0	Mass Balance	* Uncontrolled	0.00%	* Uncontrolled	0.00%

STACKS

Point#	ID	Stack Description	Height(ft)	Dia.(ft)	Temp(F)	Flow	Plume Ht.(ft)
1	16564	Wipedown Fugitives	0	0	0	0	4

2	16565	Vapor Degreaser Fugitives	0	0	0	0	3
3	16566	Paint Booth Exhaust	0	0	0	0	20
4	279	Degreasing Fugitives	0	0	0	0	5
5	18426	Testing Fugitives	0	0	0	0	5

ATTACHMENT C

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

* * * Section 1 - Chemical Product and Company Identification * * *

Product Trade Name TURCO 5668

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

* * * Section 2 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
872-50-4	N-Methyl-2-pyrrolidone	30-60
64742-52-5	Petroleum distillates, hydrotreated heavy naphthenic.	10-30
141-43-5	Ethanolamine	10-30
Proprietary	Toluene sulfonamide mixture	1-10
1310-58-3	Potassium hydroxide	1-10

* * * Section 3 - Hazards Identification * * *

Emergency Overview:

DANGER! May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Long-term exposure can cause liver and kidney damage. Excessive exposure can cause dizziness and central nervous system depression.

Potential Health Effects:

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on its composition, it is anticipated to be severely irritating to the eyes, skin and respiratory tract. Prolonged or repeated contact may remove oils from the skin and may dry skin and cause irritation, redness and rash. High vapor concentrations may be irritating to the eyes and respiratory tract, and may result in central nervous system (CNS) effects such as headache, dizziness, nausea, drowsiness and, in severe exposures, loss of consciousness and death. Precautions should be taken to limit aerosolization or misting of this material, as repeated exposure to high concentrations of mineral oil mist may cause lipoid pneumonia. Mild to severe lung injury may occur if this material is drawn into the lungs (aspirated) during swallowing, or during vomiting after swallowing. Symptoms of injury may include increased breathing and heart rate, coughing and related signs of respiratory distress. Animal studies on a component of this material have produced liver and kidney changes.

* * * Section 4 - First Aid Measures * * *

Eye Contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Skin Contact:

For skin contact flush with large amounts of water while removing contaminated clothing. Get Medical Attention. Discard any shoes or clothing items that cannot be decontaminated.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

* * * Section 5 - Fire Fighting Measures * * *

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

Flash Point:	> 200 F	**Method Used:**	PMCC	**Flammability Classification:**
Upper Flammable Limit (UFL):	NE	**Lower Flammable Limit (LFL):**	NE	

Fire & Explosion Hazards:

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Use water spray to cool containers exposed to fire. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

*** Section 6 - Accidental Release Measures ***

Clean-Up Procedures:

Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Flush area with water to remove trace residue. Dispose of collected material according to regulation.

Spill or Leak

Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water. Keep concentrate and wash water from entering sewers or waterways.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat, sparks and flame. Use explosion proof equipment. Empty container may contain hazardous residues.

Storage Procedures:

Store in a cool, dry place. Avoid excessive heat. Store out of direct sunlight in a cool, well-ventilated place.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Ethanolamine (141-43-5)

ACGIH:	3 ppm TWA 6 ppm STEL
OSHA:	3 ppm TWA; 6 mg/m3 TWA 6 ppm STEL; 15 mg/m3 STEL
NIOSH:	3 ppm TWA; 8 mg/m3 TWA 6 ppm STEL; 15 mg/m3 STEL

Potassium hydroxide (1310-58-3)

ACGIH:	C 2 mg/m3
NIOSH:	C 2 mg/m3

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Liquid	**Appearance:**	Light brown
Odor:	Amine	**Vapor Pressure:**	0.35 MM HG @ 20 F
Vapor Density:	> 1.0	**Boiling Point:**	> 200 F
Melting Point:	NA	**Specific Gravity:**	0.99
pH:	12.0 (1% solution)	**Viscosity:**	
VOC:	70 - 75 %	**Solubility Water:**	Soluble
Percent Volatile:	NIL VOL %	**Percent Solids:**	>60

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability:

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility:

Avoid contact with strong acids and oxidizers. Avoid flames, sparks, and ignition sources. Contains organic amine compounds. Nitrite based materials should not be added due to possible nitrosoamine.

Decomposition Products:

Oxides of carbon, nitrogen compounds.

Hazardous Polymerization:

Hazardous polymerization is not known to occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

N-Methyl-2-pyrrolidone (872-50-4)
Oral LD50 Rat : 3914 mg/kg
Oral LD50 Mouse : 5130 mg/kg
Dermal LD50 Rabbit : 8 gm/kg

Ethanolamine (141-43-5)
Oral LD50 Rat : 1720 mg/kg
Oral LD50 Mouse : 700 mg/kg
Dermal LD50 Rabbit : 1 mL/kg

Potassium hydroxide (1310-58-3)
Oral LD50 Rat : 273 mg/kg

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

Chronic Toxicity
No information available for the product.

Epidemiology:
No information available for the product.

Neurotoxicity:
No information available for the product.

Mutagenicity:
No information available for the product.

Teratogenicity:
No information available for the product.

* * * Section 12 - Ecological Information * * *

Ecotoxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

N-Methyl-2-pyrrolidone (872-50-4)

Test & Species		Conditions
LC50 (96 hr) rainbow trout	5104 mg/L.	
LC50 (96 hr) fathead minnow	4518.27 mg/L.	
LC50 (96 hr) bluegill	5656 mg/L.	
LC50 (96 hr) water flea	3135 mg/L.	

Ethanolamine (141-43-5)

Test & Species		Conditions
LC50 (96 hr) goldfish	170.0 mg/L.	
EC50 (30 min) Photobacterium phosphoreum	13.7 mg/L Microtox test.	

Potassium hydroxide (1310-58-3)

Test & Species		Conditions
LC50 (24 hr) mosquito fish	80.0 mg/L	

Environmental Fate:
No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Numbers & Descriptions:

A: General Product Information

Recover, reclaim or recycle when practical. Dispose of in accordance with federal, state and local regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

* * * Section 14 - Transportation Information * * *

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

* * * Section 15 - Regulatory Information * * *

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

N-Methyl-2-pyrrolidone (872-50-4)

SARA 313: form R reporting required for 1.0% de minimis concentration

Potassium hydroxide (1310-58-3)

CERCLA: final RQ = 1000 pounds (454 kg)

SARA 311/312: Acute: Y Chronic: Y Fire: N Pressure: N Reactive: N

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
N-Methyl-2-pyrrolidone	872-50-4	No	Yes	Yes	Yes	No	Yes
Ethanolamine	141-43-5	Yes	Yes	Yes	Yes	Yes	Yes
Potassium hydroxide	1310-58-3	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
N-Methyl-2-pyrrolidone	872-50-4	Yes	Yes	Yes
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	Yes	Yes	Yes
Ethanolamine	141-43-5	Yes	Yes	Yes
Potassium hydroxide	1310-58-3	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Ethanolamine	141-43-5	1%; English Item 1096; French Item 1170
Potassium hydroxide	1310-58-3	1%; English Item 1335; French Item 996

* * * Section 16 - Other Information * * *

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS Ratings: Health: 3 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety

Material Safety Data Sheet

Material Name: TURCO 5668 **ID: 238799**

and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Regulatory Affairs and Product Acceptance
Contact Phone: (248) 583-9300

This is the end of MSDS # 238799

URESCO

301 H

3

ARDROX

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name (as labeled) [redacted]

Chemical Names, Common Names Developer

Manufacturer's Name Ardrox Inc.

Address 16961 Knott Avenue, La Mirada, CA 90638

Emergency Phone 1-800-424-9300 Name of Preparer Abayomi I. Owei

Business Phone 714 739-2821 Date Prepared June 9, 1986

II. HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS NUMBERS	APPROXIMATE PERCENT	EXPOSURE LIMITS IN AIR ACGIH (TLV)	OSHA (PEL)	OTHER
1,1,1, Trichloroethane	71-55-6	Over 80	350 ppm	350 ppm	
Amorphous Silica % Mass	7631869				20 mppcf

III. PHYSICAL PROPERTIES

Vapor Density (Air=1) 4.55

Specific Gravity 1.32

Solubility in Water 0.78/100 gm.

Vapor Pressure, mmHg at 20°C 100

Evaporation Rate (butyl acetate =1) Over 5

Melting Point or Range, °F. N/A

Boiling Point or Range, °F. 165°F. Approx.

Appearance and Odor White powder suspended in colorless liquid: Pleasant ether like or chlorinated solvent odor.

HOW TO DETECT THIS SUBSTANCE (Warning properties of substance as a gas, vapor, dust, or mist)

Appearance, odor, solubility test and the utilization of other physical properties.

Hazardous decomposition products (including combustion products):

Hydrogen chloride, phosgene and other toxic substances may be produce.

Hazardous Polymerization: ____May occur x Will not occur

Conditions to Avoid:

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures):
Spills should be contained immediately. Remove spills by soaking it up with absorbent materials, placed in closed containers, labeled, store and disposed properly. Wear protective clothing and self-contained breathing apparatus when performing this job.

Preparing wastes for disposal (container types, neutralization, etc.):
This product is recyclable normally. If conditions prevent recycling, dispose of it in accordance with all federal, state and local health and pollution regulations.

Note: Dispose of all wastes in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls Use adequate ventilation (local or general) to keep down mist or vapor concentration below applicable standards.

Respiratory protection NIOSH approved organic vapor respirator.

Eye Protection (Type) Safety glasses or face shield.

Gloves (specify material) Neoprene or chemical resistant gloves.

Other Clothing and Equipment Aprons and overalls if necessary.

Work practices, hygienic practices Wash hands before touching any food for consumption. Avoid prolonged or repeated breathing of vapors. Avoid repeated exposure or contact with skin.

Other handling and storage requirements Store away from heat, open flames and oxidizing agents. Store in a well ventilated area.

Protective measures during maintenance of contaminated equipment Exercise safety precautions for contaminated clothing and material. Treat empty containers as if they were full and don' fill them with anything else.

IX. LABELING

Labeling (precautionary statements) Please read and understand warning label(s) before using product or opening product containers.

D.O.T. Label Compound Cleaning Liquid Corrosive

IV. FIRE AND EXPLOSION

Flash Point, °F. (give method) None at conventional closed tester at ordinary room temperatures.

Autoignation Temperature, °F. 998°F.

Flammable Limits in air, volume %: Lower 7.5 Upper 12.5

Fire Extinguishing Materials:

x Water Spray — x Carbon Dioxide — Other:

x Foam — x Dry Chemical

Special Firefighting Procedures: Use water spray to keep fire - exposed containers cool. Water spray may be utilized to flush spills away from exposures. Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Very high temperaturea may pose fire and explosion hazards even though it is classified as non-flammable under conventional closed tester at ordinary room temperatures.

V. HEALTH HAZARD INFORMATION

SYMPTOMS or OVEREXPOSURE for each potential route of exposure.

Inhaled: Vapor may cause headache, dizziness and stupor, nausea and vomiting. Very severe over-exposure may cause muscular incoordination.

Contact with Skin or Eyes: Skin: moderate irritation with burning sensation. Repeated or prolonged exposure may cause dermatitis.

Eyes: moderate irritation, causing pain, lacrimation and general inflammation. No corneal injury.

Absorbed through Skin: It is not readily absorbed through the skin, however exercise safety measure when handling this product.

Swallowed: May irritate gastrointestinal tract. Chemical pneumonia if vomiting results in aspiration into lungs.

HEALTH EFFECTS OR RISKS FROM EXPOSURE. Explain in lay terms. Attach extra page if more space is needed.

Acute: Irritation to skin, eyes and respiratory system.

Chronic: Dermatitis.

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Seek medical attention immediately.

Skin Contact: Wash exposed skin with soap and water for at least 15 minutes. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. Seek medical help if necessary.

Inhaled: Remove patient to fresh air. If breathing has stopped, give artificial respiration. Call a physician immediately.

Swallowed: Do not induce vomiting, but give 3-4 glasses of milk to dilute poison. Never give anything by mouth to an unconscious person. Obtain medical help immediately.

SUSPECTED CANCER AGENT?

__x__ NO: This product's ingredients are not found in the lists below.
YES: ____Federal OSHA ____NTP ____IARC ____Cal/OSHA (See note)

NOTE: California employers using Cal/OSHA-regulated carcinogens must register with Cal/OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Skin and eye diseases could be aggravated by repeated exposure.

RECOMMENDATIONS TO PHYSICIAN

There is no specific antidote. Treatment should be directed at clinical condition and symptoms control. Over exposure can produce elevated carboxyhemoglobin levels.

VI. REACTIVITY DATA

Stability: __x__ Stable ____Unstable

Conditions to avoid: Temperature extremes especially excessive heat.

Incompatibility (materials to avoid) Avoid contact with oxidizing agents, alkali metals, open flames and electric arcs.

MSDS; CITGO

Toluene
Material Safety Data Sheet

CITGO Petroleum Corporation
1701 Golf Road, Suite 1-1101
Rolling Meadows, IL 60008-4295

MSDS No. 07307
Revision Date 01/19/2004

IMPORTANT: Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

Hazard Rankings

	HMIS	NFPA
Health Hazard	* 2	2
Fire Hazard	3	3
Reactivity	0	0

* = Chronic Health Hazard

Protective Equipment

Minimum Recommended
See Section 8 for Details

Emergency Overview

Physical State Liquid.
Color Clear. **Odor** Aromatic, characteristic solvent odor.

WARNING:
Flammable liquid; vapor may cause flash fire.
Harmful or fatal if swallowed - Can enter lungs and cause damage.
Mist or vapor can irritate the respiratory tract.
Liquid contact can cause eye or skin irritation.
Overexposure can cause central nervous system (CNS) depression and/or other target organ effects.
Breathing high concentrations can cause irregular heartbeats which may be fatal.

SECTION 1. PRODUCT IDENTIFICATION

Trade Name	Toluene	**Technical Contact**	(800) 967-7601 (8am - 4pm CT M-F)
Product Number	07307	**Medical Emergency**	(918) 495-4700
CAS Number	108-88-3	**CHEMTREC Emergency (United States Only)**	(800) 424-9300

Product Family Petroleum hydrocarbon solvent

Synonyms Toluol; C7 Alkylbenzene; C7 Aromatic Hydrocarbon Solvent; High-purity Toluene; Methylbenzene; Reagent-grade Toluene (meets ASTM D-841 "Nitration Grade" Specifications); TDI-grade Toluene; Former CITGO Product Code: 2170

SECTION 2. COMPOSITION

Component Name(s)	CAS Registry No.	Concentration (%)
Toluene	108-88-3	> 99

SECTION 3. HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact. Inhalation.

Signs and Symptoms of Acute Exposure

Inhalation	Breathing high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression with symptoms including nausea, headache, dizziness, fatigue, drowsiness, or unconsciousness. Breathing high concentrations of this material, for example, in an enclosed space or by intentional abuse, can cause irregular heartbeats which can cause death.
Eye Contact	This material can cause eye irritation with tearing, redness, or a stinging or burning feeling. Further, it can cause swelling of the eyes with blurred vision. Effects may become more serious with repeated or prolonged contact.
Skin Contact	May cause mild skin irritation with redness and/or an itching or burning feeling. Effects may become more serious with repeated or prolonged contact. It is likely that this material is able to pass into the body through the skin and may cause similar effects as from breathing or swallowing it.
Ingestion	Swallowing this material may be harmful. Swallowing this material may cause stomach or intestinal upset with pain, nausea, and/or diarrhea. This material can get into the lungs during swallowing or vomiting. Small amounts in the lungs can cause lung damage, possibly leading to chronic lung dysfunction or death. Swallowing this material may cause effects similar to those described in the inhalation section (see "inhalation" above).
Chronic Health Effects Summary	Aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffers Encephalopathy), delirium, seizures, and sudden death have been reported from repeated over-exposure such as gasoline and naphtha abusers. Prolonged or repeated overexposure to toluene has been associated with reproductive effects in experimental animals and in long-term chemical abuse situations. Long-term overexposure to toluene has been associated with impaired color vision. Also, long-term overexposure to toluene in occupational environments have been associated with hearing damage. See Toxicological Information (Section 11)
Conditions Aggravated by Exposure	Disorders of the following organs or organ systems that may be aggravated by significant exposure to this material or its components include: Skin, Respiratory System, Central Nervous System (CNS), Heart (Cardiac), auditory system
Target Organs	This material may cause damage to the following organs: kidneys, liver, mucous membranes, heart, upper respiratory tract, skin, audiometric response, central nervous system (CNS), eye, lens or cornea
Carcinogenic Potential	This product is not known to contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC or NTP.

Toluene

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA Health Hazard Classification				OSHA Physical Hazard Classification					
Irritant	X	Sensitizer		Combustible		Explosive		Pyrophoric	
Toxic		Highly Toxic		Flammable	X	Oxidizer		Water-reactive	
Corrosive		Carcinogenic		Compressed Gas		Organic Peroxide		Unstable	

SECTION 4. FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

Inhalation

Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, 100 percent humidified oxygen should be administered by a qualified individual. Seek medical attention immediately.

Eye Contact

Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.

Skin Contact

Remove contaminated shoes and clothing. Flush affected area with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. Do not use ointments. If skin surface is not damaged, clean affected area thoroughly with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists.

Ingestion

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.

Notes to Physician

INHALATION: Inhalation overexposure can produce toxic effects. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis. Administer supplemental oxygen with assisted ventilation, as required.

This material (or a component) sensitizes the heart to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administion of sympathomimetic drugs should be avoided.

INGESTION: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SECTION 5. FIRE FIGHTING MEASURES

NFPA Flammability Classification	NFPA Class-IB flammable liquid.
Flash Point	Closed cup: 4°C (40°F). (Tagliabue.)
Lower Flammable Limit	AP 1 % **Upper Flammable Limit** AP 7 %
Autoignition Temperature	536°C (997°F)
Hazardous Combustion Products	Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, aldehydes and other products of incomplete combustion.
Special Properties	Flammable Liquid! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.
Extinguishing Media	SMALL FIRE: Use dry chemicals, carbon dioxide, foam, water fog, or inert gas (nitrogen). LARGE FIRE: Use foam, water fog, or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, autoignition or explosion. DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area.
Protection of Fire Fighters	Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities if liquid enter sewers or waterways.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Flammable Liquid! Release causes an immediate fire or explosion hazard. Evacuate all non-essential personnel from immediate area and establish a "regulated zone" with site control and security. A vapor-suppressing foam may be used to reduce vapors. Eliminate all ignition sources. All equipment used when handling this material must be grounded. Stop the leak if it can done without risk. Do not touch or walk through spilled material. Remove spillage immediately from hard, smooth walking areas. Prevent spilled material from entering waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

For large spills, secure the area and control access. Prevent spilled material from entering sewers, storm drains, other drainage systems, and natural waterways. Dike far ahead of a liquid spill to ensure complete collection. Water mist or spray may be used to reduce or disperse vapors; but, it may not prevent ignition in closed spaces. This material will float on

water and its run-off may create an explosion or fire hazard. Verify that responders are properly HAZWOPER-trained and wearing appropriate respiratory equipment and fire-resistant protective clothing during cleanup operations. In an urban area, cleanup spill as soon as possible; in natural environments, cleanup on advice from specialists. Pick up free liquid for recycle and/or disposal if it can be accomplished safely with explosion-proof equipment. Collect any excess material with absorbant pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all laws and regulations.

SECTION 7. HANDLING AND STORAGE

Handling

A spill or leak can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks, or any other potential ignition sources. Do not contact with oxidizable materials. Do not breathe vapor. Use only with adequate ventilation and personal protection. Never siphon by mouth. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not take internally.

When performing repairs and maintenance on contaminated equipment, keep unnecessary persons away from the area. Eliminate all potential ignition sources. Drain and purge equipment, as necessary, to remove material residues. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide ventilation to maintain exposure potential below applicable exposure limits. Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.

Empty containers may contain material residues which can ignite with explosive force. Misuse of empty containers can be dangerous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers can cause fire, explosion, or release of toxic fumes from residues. Do not pressurize or expose empty containers to open flame, sparks, or heat. Keep container closed and drum bungs in place. All label warnings and precautions must be observed. Return empty drums to a qualified reconditioner. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling, or disposing of empty containers and/or waste residues of this material.

Storage

Store and transport in accordance with all applicable laws. Keep containers tightly closed and store in a cool, dry, well-ventilated place, plainly labeled, and out of closed vehicles. Keep away from all ignition sources. Ground all equipment containing this material. Containers should be able to withstand pressures expected from warming and cooling in storage. This flammable liquid should be stored in a separate safety cabinet or room. A refrigerated room is preferable for materials with a flash point temperature lower than 70°F (21°C). All electrical equipment in areas where this material is stored or handled should be installed in accordance with applicable regulatory requirements and the National Electrical Code.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. All electrical equipment should comply with the National Electric Code. An emergency eye wash station and safety shower should be located near the work-station.

Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.

Toluene

Eye Protection	Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Chemical goggles should be worn during transfer operations or when there is a likelihood of misting, splashing, or spraying of this material. Suitable eye wash water should be readily available.
Hand Protection	Avoid skin contact. Use gloves (e.g., disposable PVC, neoprene, nitrile, vinyl, or PVC/NBR). Wash hands with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners.
Body Protection	Avoid skin contact. Wear long-sleeved fire-retardant garments (e.g., Nomex®) while working with flammable and combustible liquids. Additional chemical-resistant protective gear may be required if splashing or spraying conditions exist. This may include an apron, boots and additional facial protection. If product comes in contact with clothing, immediately remove soaked clothing and shower. Promptly remove and discarded contaminated leather goods.
Respiratory Protection	For unknown vapor concentrations use a positive-pressure, pressure-demand, self-contained breathing apparatus (SCBA). For known vapor concentrations above the occupational exposure guidelines (see below), use a NIOSH-approved organic vapor respirator if adequate protection is provided. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).
General Comments	Warning! Use of this material in spaces without adequate ventilation may result in generation of hazardous levels of combustion products and/or inadequate oxygen levels for breathing. Odor is an inadequate warning for hazardous conditions.

Occupational Exposure Guidelines

Substance	**Applicable Workplace Exposure Levels**
Toluene	**ACGIH (United States). Skin** TWA: 50 ppm 8 hour(s). **OSHA (United States).** TWA: 200 ppm 8 hour(s). CEIL: 300 ppm PEAK: 500 ppm

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

Physical State	Liquid.	**Color**	Clear.	**Odor**	Aromatic, characteristic solvent odor.
Specific Gravity	0.872 (Water = 1)	**pH**	Not Applicable.	**Vapor Density**	AP 3 (Air = 1)
Boiling Range	AP 111° C (AP 231° F)			**Melting/Freezing Point**	AP -95°C (AP -139°F)
Vapor Pressure	3.2 kPa (24 mmHg) (at 20°C)			**Volatility**	872 g/l VOC (W/V)
Solubility in Water	Very slightly soluble in cold water. (<0.1 % w/w)			**Viscosity (cSt @ 40°C)**	<3
Additional Properties					

Toluene

Paraffin, Isoparaffin and Cycloparaffin Hydrocarbons Content = <1 Wt.% (ASTM D-1319);
Aromatic Hydrocarbon Content = >99 Wt. % (ASTM D-1319);
Average Density at 60°F = 7.26 lbs./gal. (Calculated via ASTM D-287);
Aniline Cloud Point Temperature = 48°F (8.9°C) (ASTM D-611);
Kauri-Butanol (KB) Value = 105 (ASTM D-1133);
Dry Point Temperature = 231°F (111°C) (ASTM D-86, D-850 or D-1078);
Evaporation Rate = 1.9 (n-Butyl acetate = 1.0);
Heat Value = 18,314 Btu per pound;
Flash Point = 40° F (4° C) (TCC);
Odor Threshold = 2 to 5 ppm in air

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable.	**Hazardous Polymerization**	Not expected to occur.
Conditions to Avoid	Keep away from heat, sparks and flame.		
Materials Incompatibility	Strong acids, alkalies, and oxidizers such as liquid chlorine, other halogens, hydrogen peroxide and oxygen.		
Hazardous Decomposition Products	No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS.		

SECTION 11. TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data

Toluene:
Effects from Acute Exposure:
Deliberate inhalation of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system and can cause CNS depression, cardiac arrhythmias and death. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects.

Effects from Repeated or Prolonged Exposure:
Studies of workers indicate long-term exposure may be related to impaired color vision and hearing. Some studies of workers suggest long-term exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest long-term exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals were largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Environmental Fate This product is not expected to bioaccumulate through food chains in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Maximize material recovery for reuse or recycling. If discarded, Toluene is regulated by US EPA as a listed hazardous waste (U220). Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility (D001) and/or its toxic (D018) characteristics. Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specfic disposal issues.

SECTION 14. TRANSPORT INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

US DOT Status A U.S. Department of Transportation (DOT) regulated material.

Proper Shipping Name RQ, Toluene, 3, UN1294, PG II

Hazard Class 3

Packing Group(s) II

UN/NA Number UN1294

Reportable Quantity RQ 1000 lbs. [Based upon maximum Toluene concentration of 100% and an RQ of 1000 lbs.]

Placard(s)

Emergency Response Guide No. 130

HAZMAT STCC No. 49 093 05

MARPOL III Status Not a DOT "Marine Pollutant" per 49 CFR 171.8.

SECTION 15. REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

Toluene

SARA 302/304 Emergency Planning and Notification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.
SARA 311/312 Hazard Identification	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Fire, Acute (Immediate) Health Hazard, Chronic (Delayed) Health Hazard
SARA 313 Toxic Chemical Notification and Release Reporting	This product contains the following components in concentrations above de minimis levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: Toluene [CAS No.: 108-88-3] Concentration: >99%
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: Toluene [CAS No.: 108-88-3] RQ = 1000 lbs. (453.6 kg) Concentration: >99% Benzene [CAS No.: 71-43-2] RQ = 10 lbs. (4.536 kg) Concentration: <0.1%
Clean Water Act (CWA)	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.
California Proposition 65	This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Toluene: >99% Benzene: <0.1%
New Jersey Right-to-Know Label	For New Jersey R-T-K labeling requirements, refer to components listed in Section 2.
Additional Regulatory Remarks	Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains Toluene which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Toluene! Harmful or fatal if swallowed! Call Physician Immediately. Vapor Harmful! KEEP OUT OF REACH OF CHILDREN!**

SECTION 16. OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number	5.0
Revision Date	01/19/2004
Print Date	Printed on 01/19/2004.

ABBREVIATIONS

Toluene

AP: Approximately EQ: Equal >: Greater Than <: Less Than NA: Not Applicable ND: No Data NE: Not Established
ACGIH: American Conference of Governmental Industrial Hygienists AIHA: American Industrial Hygiene Association
IARC: International Agency for Research on Cancer NTP: National Toxicology Program
NIOSH: National Institute of Occupational Safety and Health OSHA: Occupational Safety and Health Administration
NPCA: National Paint and Coating Manufacturers Association HMIS: Hazardous Materials Information System
NFPA: National Fire Protection Association EPA: US Environmental Protection Agency

DISCLAIMER OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS. SOME INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

***** END OF MSDS *****

MATERIAL SAFETY DATA SHEET

NPCA 1
SA

FOR COATINGS, RESINS AND RELATED MATERIALS

Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP. 9-30-97

Section I

MANUFACTURER'S NAME Trail Chemical Corp.

STREET ADDRESS 9904 Gidley Street CITY, STATE, AND ZIP CODE El Monte, Ca. 91731

EMERGENCY TELEPHONE NO (818) 442-4140

INFORMATION TELEPHONE NO Same

PRODUCT CLASS EPOXY MANUFACTURERS CODE IDENTIFICATION X-75351 -E

HAZARD CODE HMIS H F R P
2 3 0 C

TRADE NAME Clear Gloss Epoxy Baking Enamel

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV PPM	TLV mg/M³	LEL	VAPOR PRESSURE mm Hg@20°C
Aliphatic Petroleum Solvent CAS# 64742-95-6	46.0	Not established		1.0	3.0
* Methyl n-Propyl Ketone CAS# 107-87-9	19.6	200	705	1.6	28.0
* n-Butyl Acetate CAS# 123-86-4	11.7	150	713	1.7	7.8
Aliphatic Hydrocarbon (Stoddard) CAS# 8052-41-3	5.1	100	525	1.0	2.0
1,2,4- Trimethylbenzene CAS# 95-63-6	1.9	Not established			
1,3,5- Trimethylbenzene CAS# 108-67-8	.9	Not established			

* This chemical is subject to the reporting requirements of Section 313 of SARA TITLE III.

Section III — PHYSICAL DATA

BOILING RANGE 100 - 315°F VAPOR DENSITY [X] HEAVIER. [ ] LIGHTER THAN AIR

EVAPORATION RATE [ ] FASTER [X] SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 87.8 WEIGHT PER GALLON 7.30

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION Flammable Liquid FLASH POINT TCC 62°F LEL

EXTINGUISHING MEDIA Foam, CO_2 Dry Chemical, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS Flammable vapors may cuase explosive mixtures with air. Vapors are heavier than air and may travel along ground and be ignited by pilot lights, sparks, heaters, smoking, electric motors and other ignition sources.

SPECIAL FIRE FIGHTING PROCEDURES Self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode. Water streams will only spread burning material. Use water fog to cool containers exposed to fire to reduce internal pressure.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

ACUTE: Eyes: Can cause irritation, redness tearing and blurred vision.
Skin: Can cause irritation, defatting, dermatitis.
Breathing: Can cause irritation, dizziness, fatigue, nausea, headache, possible unconsciousness.

CHRONIC

EMERGENCY AND FIRST AID PROCEDURES Eyes: FLush with large amounts of water, lifting upper & lower lids, get medical attention.
Skin: Wash exposed area with soap and water. Remove and launder contaminated clothing.
Swallowed: Do not induce vomiting. Keep warm and quiet and get medical attention.
Breathed: Remove to fresh air. Administer oxygen if breathing is difficult, call physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE CONDITIONS TO AVOID

INCOMPATABILITY (Materials to avoid) Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID Heat, sparks, open flame and fire.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Wipe up and safely discard absorbants. In the event of a large spill, dike the area and pump material to a waste tank.

WASTE DISPOSAL METHOD In accordance with Federal, State and local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION NIOSH/MESA approved for organic vapors. If airborne concentration exceeds TLV, use self-contained breathing apparatus or respirator.

VENTILATION Sufficient to maintain airborne concentration less than TLV.

PROTECTIVE GLOVES Buna

EYE PROTECTION Chemical safety goggles or face shield.

OTHER PROTECTIVE EQUIPMENT

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Use with adequate ventilation. Avoid prolonged breathing of vapors. Avoid prolonged or repeated skin contact.

DOL STORAGE CATEGORY

OTHER PRECAUTIONS Do not use near sparks, open flame, electric equipment, smoking, welding operations or other sources of ignition. Emptied containers may contain residual material suffieient to pose a fire or explosion hazard.

ATTACHMENT D

(A)

VAPOR DEGREASER

HOIST SPEED 16 FPM

HEAT SET POINT 214°F

ACTUAL TEMP 181°F

ATTACHMENT E

VAPOR DEGREASER FLUID USAGE LOG

Please write down amount of trichlorethylene added as well as date and time.

Date	Time	Gallons Added	
8/23/06	7:00 AM	110 gallons	OUT
8/23/06	9:00 PM	110 gallons	IN
9/30/06	800 AM	110 gallons	OUT
9/30/06	1030 AM	110 gallons	IN
11/28/06	300 PM	110 gallons	IN
11/28/06	300 PM	110	OUT
12/22/06	130 PM	110	OUT
12/22/06	130 PM	110	IN
[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	
1-11-07	315 PM	55 gal	OUT
1-11-07	435 PM	70 gal	IN
2-7-07	800 AM	55 gal	OUT
2-7-07	900 AM	55 gal	IN
3/2/07	400 PM	70 gal	IN
3/2/07	530 PM	50 gal	OUT
5/31/07	430 PM	56 gal	OUT
5/31/07	530 PM	75 gal	IN
7/2/07	700 AM	90 gal	OUT
7/2/07	900 AM	40 gal	IN
7/31/07	500 PM	110	OUT
7/31/07	700 PM	110	IN
8/30/07	100 PM	110	OUT
8/30/07	600 PM	110	IN
10/20/07	700 AM	110	OUT
10/20/07	100 PM	110	IN
11/15/07	1000 AM	110	OUT
11/15/07	11 AM	110	IN
12/20/07	11 AM	110	OUT
12/20/07	100 PM	110	IN
1/23/08	100 PM	110	OUT
2/4/08	900 AM	110	IN
2/22/08	330 PM	110	OUT
2/23/08	800 AM	110	IN
3/3/08	700 AM	110	OUT
3/3/08	833 AM	110	IN
4/4/08	700 AM	110	OUT
4/4/08	800 AM	110	IN

VAPOR DEGREASER FLUID

USAGE LOG

Please write down the amount of trichlorethylene added s well as date and time

Date		Time			Gallons Added
5 12 08	XXX	1230	XXX	OUT	75
5 12 08	XXX	130	XXX	IN	75
6 9 08	XXX	1630	XXX	OUT	75
6 9 08	XXX	830	XXX	IN	75
6 12 08	XXX	530	XXX	OUT	110
6 17 08	XXX	700	XXX	IN	110
7 2 08	XXX	645	XXX	OUT	110
7 2 08	XXX	750	XXX	IN	110
8 16 08	XXX	700	XXX	OUT	77.5
8 16 08	XXX	830	XXX	IN	75
9 13 08	XXX	700	XXX	OUT	75
9 13 08	XXX	900	XXX	IN	75
10 10 08	XXX	515	XXX	OUT	110
10 10 08	XXX	700	XXX	IN	110
11 14 08	XXX	330 PM	XXX	OUT	110
11 15 08	XXX	700 AM	XXX	IN	110
	XXX		XXX		
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	XXX		XXX		

LIMCO Airepair, Inc.

RECEIVED
JAN 14 2015
AIR QUALITY

January 09, 2015

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2014 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 14 2015
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2014		Ending Date:	December 31, 2014	

☒ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Ultronix HE503035	Batch, dip	634.8.3 kg/yr
Unit #2341		
Still Unit #2158		

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill W. Williams		
Responsible Official (typed)	Bill Williams	Date	January 09, 2015
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 14 2015
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						
Reporting Period	Beginning Date:	January 1, 2014		Ending Date:	December 31, 2014		

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Ultronix HE503035 Unit #2341 Still Unit #2158	Batch, dip	1.16 m^2 (12.5 ft^2)		52.9

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

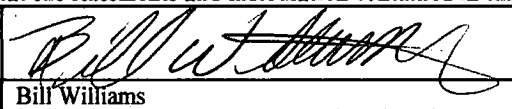
[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	Unit # 2341					
1	1.95	2.3				
2	8.76	3.6				
3	0	3.6				
4	10.71	6.5				
5	0	3.6				
6	-9.74	0.3				
7	11.68	0.6				
8	33.1	11.7				
9	0	14.9				
10	55.5	29.5				
11	0	18.5				
12	0	18.5				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	1-09-2015
Responsible Official Title	Facilities Manager	Phone	918-445-4300

LIMCO Airepair, Inc.

2014 VAPOR DEGREASER 3-MONTH ROLLING TOTAL EMISSIONS

	TCE (gal) Added	TCE (gal) Removed	Sludge Removed	Emissions	3-Month Rolling Total	
Jan	27	25	0	1.95	2.3	Jan
Feb	96	87	0	8.76	3.6	Feb
Mar	0	0	0	0.00	3.6	Mar
Apr	25	14	0	10.71	6.5	Apr
May	0	0	0	0.00	3.6	May
June	25	35	0	-9.74	0.3	June
July	104	92	0	11.68	0.6	July
Aug	34	0	0	33.10	11.7	Aug
Sept	0	0	0	0.00	14.9	Sept
Oct	140	83	0	55.50	29.5	Oct
Nov	0	0	0	0.00	18.5	Nov
Dec	0	0	0	0.00	18.5	Dec
Total Lbs.	5488.67	4089.12			REMOVED=	336 gl/yr
lbs put in	#VALUE!		TPY Used=	2.7	USAGE=	451 gl/yr
Per Month	457.4					(gallons added)

Average Monthly Solvent Consumption=
pounds put into degreaser minus pounds taken out

lbs.Waste Per Month	340.8	116.6	lbs/mo	52.9	kg/mo
gal waste year	336	1399.6	lbs/yr	634.8	kg/yr
	Emissions	0.700	ton/yr		

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 14 2015
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.				
Mailing Address	5304 S. Lawton Ave.				
City	Tulsa	State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.				
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.				
City	Tulsa	State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager	Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)				

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)		X	July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun	Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	January 09, 2015
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

r, Inc
wton Avenue
07

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UNITED STATES POSTAL SERVICE

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73101

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$7.19
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Okla. Dept. Of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
JAN 14 2015
AIR QUALITY

RETURN RECEIPT
REQUESTED

LIMCO Airepair, Inc.

RECEIVED
JAN 19 2011
AIR QUALITY

January 12, 2011

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2010 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

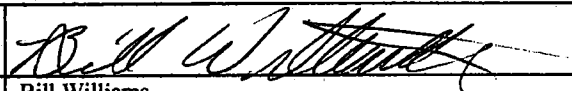
Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2010		Ending Date:	December 31, 2010	

☒ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	552 kg/yr

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 12, 2011
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					
Reporting Period	Beginning Date:	January 1, 2010		Ending Date:	December 31, 2010	

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		46.0

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	0.00 lbs	19.1 lbs				
2	1.74 lbs	16.8 lbs				
3	1.74 lbs	1.2 lbs				
4	8.69 lbs	4.1 lbs				
5	0.00 lbs	3.5 lbs				
6	20.86 lbs	9.9 lbs				
7	34.77 lbs	18.5 lbs				
8	34.77 lbs	30.1 lbs				
9	41.73 lbs	37.1 lbs				
10	12.17 lbs	29.6 lbs				
11	0.00 lbs	18.0 lbs				
12	17.39 lbs	9.9 lbs				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	1-12-2011
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)	X	July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	January 12, 2011
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

RECEIVED
JAN 21 2014
AIR QUALITY

LIMCO Airepair, Inc.

January 15, 2014

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2013 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 21 2014
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)				99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2013			Ending Date:	December 31, 2013	

☐ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Ultronix HE503035	Batch, dip	778.3 kg/yr
Unit #2341		
Still Unit #2158		

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	January 16, 2014
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 21 2014
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					
Reporting Period	Beginning Date:	January 1, 2013		Ending Date:	December 31, 2013	

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Ultronix HE503035 Unit #2341 Still Unit #2158	Batch, dip	1.16 m^2 (12.5 ft^2)		64.9

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	Unit # 2341					
1	122.67	58.3				
2	0	46.7				
3	0	40.9				
4	4.87	1.6				
5	0	1.6				
6	0	1.6				
7	0	0				
8	4.87	1.6				
9	0	1.6				
10	0	1.6				
11	4.87	1.6				
12	0	1.6				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	1-16-2014
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 21 2014
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)	X	July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			
Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 16, 2014
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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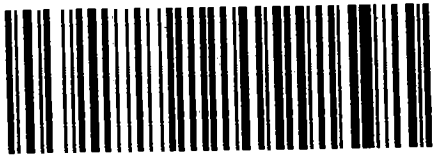

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Okla. Department of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

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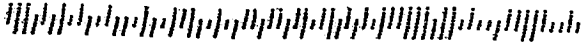

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Limco Airepair

January 13, 2016

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2015 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual and the semiannual reports (#435, #436 and #437) required for vapor degreasers.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

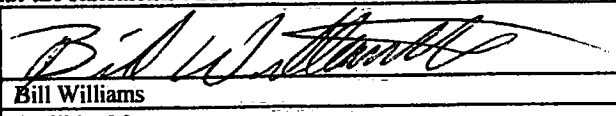
Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2015		Ending Date:	December 31, 2015	

☒ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Ultronix HE503035	Batch, dip	386.4 kg/yr
Unit #2341		
Still Unit #2158		

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 13, 2016
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2015		Ending Date:	December 31, 2015	

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Ultronix HE503035 Unit #2341 Still Unit #2158	Batch, dip	1.16 m^2 (12.5 ft^2)		32.2

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions[1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions[1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions[1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	Unit # 2341					
	32.13	10.7				
	0.00	10.7				
	-2.92	9.7				
	-3.89	-2.3				
	0.00	-2.3				
	1.95	-0.6				
	6.82	2.9				
	-14.60	-1.9				
	14.60	2.3				
	14.60	4.9				
	0.00	9.7				
	19.47	11.4				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	1-13-2016
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)			X	July – December (Due January 30)	
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep	Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	January 13, 2016
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

ERI SOLUTIONS INC.

125 N. First Street | Colwich, KS 67030

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Bartlesville OK
74005

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AIR QUALITY

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Okla. Department of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

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JAN 22 2013
AIR QUALITY

LIMCO Airepair, Inc.

January 18, 2013

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2012 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

LIMCO Airepair, Inc.

2012 VAPOR DEGREASER 3-MONTH ROLLING TOTAL EMISSIONS

	TCE (gal) Added	TCE (gal) Removed	Sludge Removed	Emissions	3-Month Rolling Total	
Jan	200	195	0	8.69	9.3	Jan
Feb	0	13	0	-22.60	-4.6	Feb
Mar	225	181.5	0	75.63	20.6	Mar
Apr	65	65	0	0.00	17.7	Apr
May	80	80	0	0.00	25.2	May
June	130	123	0	12.17	4.1	June
July	70	66	0	6.95	6.4	July
Aug	35	21	0	24.34	14.5	Aug
Sept	40	26	0	24.34	18.5	Sept
Oct	270	234	0	62.59	37.1	Oct
Nov	305	285	0	34.77	40.6	Nov
Dec	130	120	0	17.39	38.2	Dec
Total Lbs.	18863.5	17153.62			REMOVED=	1409.5 gl/yr
			TPY			
lbs put in	#VALUE!		Used=	9.4	USAGE=	1550 gl/yr
Per Month	1572.0					(gallons added)

Average Monthly Solvent Consumption=
pounds put into degreaser minus pounds taken out

lbs.Waste Per Month	1429.5		142.5	lbs/mo	64.6	kg/mo
gal waste year	1409.5		1709.9	lbs/yr	775.6	kg/yr
		Emissions	0.855	ton/yr		

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

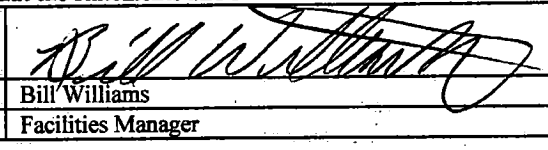
Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011	

☐ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	775.6 kg/yr

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 18, 2013
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

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AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					
Reporting Period	Beginning Date:	January 1, 2012		Ending Date:	December 31, 2012	

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		64.6

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	8.69	9.3				
2	-22.60	-4.6				
3	75.63	20.6				
4	0.00	17.7				
5	0.00	25.2				
6	12.17	4.1				
7	6.95	6.4				
8	24.34	14.5				
9	24.34	18.5				
10	62.59	37.1				
11	34.77	40.6				
12	17.39	38.2				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	1-18-2013
Responsible Official Title	Facilities Manager	Phone	918-445-4300

RECEIVED
JAN 22 2013
AIR QUALITY

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)	X	July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep	Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	January 18, 2013
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

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P.O. Box 1677
Oklahoma City, OK 73101-1677

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AIR QUALITY

LIMCO Airepair, Inc.

January 20, 2012

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2011 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

RECEIVED
JAN 24 2012
AIR QUALITY

LIMCO Airepair, Inc.

2011 VAPOR DEGREASER 3-MONTH ROLLING TOTAL EMISSIONS

	TCE (gal) Added	TCE (gal) Removed	Sludge Removed	Emissions	3-Month Rolling Total	
Jan	140	137	0	5.22	7.5	Jan
Feb	255	254	0	1.74	8.1	Feb
Mar	140	125	0	26.08	11.0	Mar
Apr	150	146	0	6.95	11.6	Apr
May	20	18	0	3.48	12.2	May
June	125	114	0	19.12	9.9	June
July	20	8	0	20.86	14.5	July
Aug	53	34	0	33.03	24.3	Aug
Sept	228	207	0	36.51	30.1	Sept
Oct	170	170	0	0.00	23.2	Oct
Nov	35	32	0	5.22	13.9	Nov
Dec	34	26	0	13.91	6.4	Dec
Total Lbs.	16672.9	15468.07			REMOVED	1271 gl/yr
lbs put in	#VALUE!		TPY Used=	8.3	USAGE=	1370 gl/yr
Per Month	1389.4				or "Added"	

Average Monthly Solvent Consumption=
pounds put into degreaser minus pounds taken out

lbs.Waste Per Month	1289.0		100.4	lbs/mo	45.5	kg/mo
gal waste year	1271		1204.8	lbs/yr	546.5	kg/yr
		Emissions	0.6	ton/yr		

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

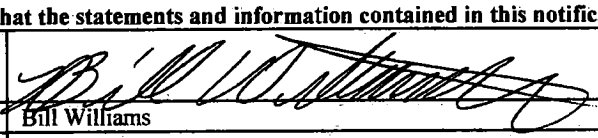
Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011	

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	546.5 kg/yr

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 20, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

RECEIVED
JAN 24 2012
AIR QUALITY

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011		

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		45.5

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	5.22 lbs	7.5 lbs				
2	1.74 lbs	8.1 lbs				
3	26.08 lbs	11.0 lbs				
4	6.95 lbs	11.6 lbs				
5	3.48 lbs	12.2 lbs				
6	19.12 lbs	9.9 lbs				
7	20.86 lbs	14.5 lbs				
8	33.03 lbs	24.3 lbs				
9	36.51 lbs	30.1 lbs				
10	0 lbs	23.2 lbs				
11	5.22 lbs	13.9 lbs				
12	13.91 lbs	6.4 lbs				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	1-20-2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**

(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JAN 24 2012
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period	Semiannual Reporting		January – June (Due July 30)	X	July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			
Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 20, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

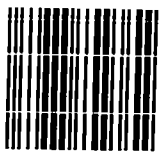
Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

1000



73101

U.S. POSTAGE
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74003
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Okla. Department of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
JAN 24 2012
AIR QUALITY

73101$1677-2015

LIMCO Airepair, Inc.

RECEIVED
JAN 24 2012
AIR QUALITY

January 20, 2012

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2011 Degreaser Annual Report/Annual Solvent Emissions Report/ Exceedance Report

Enclosed are annual/semiannual reports required for vapor degreasers: Annual Report, Annual Solvent Emissions Report and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Manager

LIMCO Airepair, Inc.

2011 VAPOR DEGREASER 3-MONTH ROLLING TOTAL EMISSIONS

	TCE (gal) Added	TCE (gal) Removed	Sludge Removed	Emissions	3-Month Rolling Total	
Jan	140	137	0	5.22	7.5	Jan
Feb	255	254	0	1.74	8.1	Feb
Mar	140	125	0	26.08	11.0	Mar
Apr	150	146	0	6.95	11.6	Apr
May	20	18	0	3.48	12.2	May
June	125	114	0	19.12	9.9	June
July	20	8	0	20.86	14.5	July
Aug	53	34	0	33.03	24.3	Aug
Sept	228	207	0	36.51	30.1	Sept
Oct	170	170	0	0.00	23.2	Oct
Nov	35	32	0	5.22	13.9	Nov
Dec	34	26	0	13.91	6.4	Dec
Total Lbs.	16672.9	15468.07			REMOVED	1271 gl/yr
lbs put in	#VALUE!		TPY Used=	8.3	USAGE=	1370 gl/yr
Per Month	1389.4				or "Added"	

Average Monthly Solvent Consumption=
pounds put into degreaser minus pounds taken out

lbs.Waste Per Month	1289.0	100.4	lbs/mo	45.5	kg/mo
gal waste year	1271	1204.8	lbs/yr	546.5	kg/yr
Emissions		0.6	ton/yr		

ANNUAL REPORT

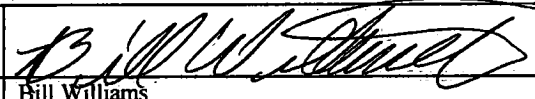
FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011	
	All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).					

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	546.5 kg/yr

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 20, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2011		Ending Date:	December 31, 2011	

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		45.5

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	5.22 lbs	7.5 lbs	3.4 Kg			
2	1.74 lbs	8.1 lbs	3.67 Kg			
3	26.08 lbs	11.0 lbs	4.9 Kg			
4	6.95 lbs	11.6 lbs	5.26 Kg			
5	3.48 lbs	12.2 lbs	5.5 Kg			
6	19.12 lbs	9.9 lbs				
7	20.86 lbs	14.5 lbs	16.58 Kg			
8	33.03 lbs	24.3 lbs	11.0 Kg			
9	36.51 lbs	30.1 lbs	13.7 Kg			
10	0 lbs	23.2 lbs	16.5 Kg			
11	5.22 lbs	13.9 lbs				
12	13.91 lbs	6.4 lbs				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill W. Williams		
Responsible Official (typed)	Bill Williams	Date	1-20-2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.							
Mailing Address	5304 S. Lawton Ave.							
City	Tulsa			State	Oklahoma	Zip	74107	
Facility Name	Limco Airepair, Inc.							
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.							
City	Tulsa			State	Oklahoma	Zip	74107	
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300	
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)							

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)	X	July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 20, 2012
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

Okla. Department of Env. Quality
Helen King
Air Quality Division
3105 E. Skelly Drive, Suite 200
Tulsa. OK 74105

74105$6370*0022

RECEIVED
JAN 26 2006
By

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 South Lawton Avenue						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc,						
Street Address (i.e., Physical Location)	5304 South Lawton						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Ron Lee	Title	Assistant General Manager			Phone	918-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-0						
Reporting Period	Beginning Date:	1-2-2005		Ending Date:	12-31-2005		

☐ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N 379	Batch, dip	5186 lb/year

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Ronald Lee		1/24/06
Responsible Official (typed)	Ron Lee	Date	
Responsible Official Title	Assistant General Manager	Phone	918-445-4300

LIMCO Airepair, Inc.

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FEB 01 2010
AIR QUALITY

January 27, 2010

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2009 Degreaser Annual Reports/ Exceedance Report

Enclosed are annual reports required for vapor degreasers (Annual Report & Annual Solvent Emissions Report) and the semiannual exceedance report.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facilities Manager

ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

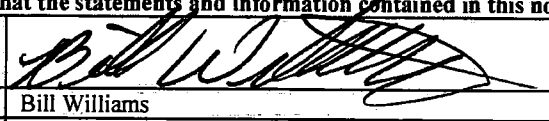
Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)			99-026-O (M-2)			
Reporting Period	Beginning Date:	January 1, 2009		Ending Date:	December 31, 2009	

☒ All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
Tally S/N379	Batch, dip	822.5

Certification: **This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 27, 2010
Responsible Official Title	Facilities Manager	Phone	918-445-4300

ANNUAL SOLVENT EMISSIONS REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Alternative Standard** (40 CFR § 63.464)

(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						
Reporting Period	Beginning Date:	January 1, 2009		Ending Date:	December 31, 2009		

Machine ID#	Machine Type[1]	Machine Size[2]		Average Monthly Solvent Consumption[3] (kg per month)
		Solvent/Air Interface (m^2 or in^2)	Cleaning Capacity (m^3 or ft^3)	
Tally S/N379	Batch, dip	0.6503 m^2 (7 ft^2)		68.5

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]Give solvent/air interface (in square meters or square inches), or cleaning capacity (in cubic meters or cubic feet), if the machine does not have a solvent/air interface (attach calculation method and results). Indicate units.

[3]Indicate units, and attach calculation sheets

Month	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]	Monthly Solvent Emissions [1]	3-Month Rolling Average Emissions[2]
Machine ID# ⇒	S/N379					
1	12.17	37.2				
2	24.34	28.7				
3	8.69	15.1				
4	8.69	13.9				
5	10.43	9.3				
6	8.69	9.3				
7	39.99	19.7				
8	39.99	29.6				
9	39.99	40.0				
10	8.69	29.6				
11	8.69	19.1				
12	48.68	22.0				

[1]Solvent Emissions (specify kg or lbs) for the specified month, calculated per 40 CFR § 63.465(c).

[2]3-Month Rolling Average Solvent Emissions (specify kg or lbs per month), calculated per 40 CFR § 63.465(c).

Certification: **This notification has been submitted as required by 40 CFR § 63.468(g). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	1-27-2010
Responsible Official Title	Facilities Manager	Phone	918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting		January – June (Due July 30)	X	July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

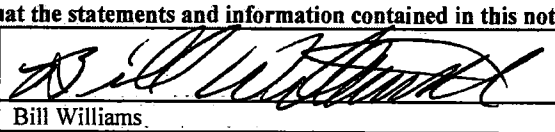
Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	January 27, 2010
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

LIMCO Airepair, Inc.

RECEIVED
FEB 0 7 2005
AIR QUALITY

PCE #05187

January 27, 2005

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Re: 2004 Degreaser Annual Report

Please see attached forms for the Halogenated Solvent Cleaner NESHAP annual compliance report.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Ron Lee

Ron Lee
Assistant General Manager

cc: Limco ES&II File
Pardigm Limco File

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ANNUAL REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying with the **Equipment Standard** (40 CFR § 63.463)
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	OK	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	OK	Zip	74107
Contact Person	Ron Lee	Title	Assistant General Manager			Phone	(918)445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O(M-2)						
Reporting Period	Beginning Date:	1/1/04		Ending Date:	12/31/04		

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR § 63.463(d)(10).

Machine ID#	Machine Type[1]	Estimated Solvent Consumption during the Reporting Period (Indicate kg/yr or lb/yr)
S/N 379	Tally Degreaser	3927 lbs/yr.

Certification: This notification has been submitted as required by 40 CFR § 63.468(f). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.

Responsible Official (signature)	Ron Lee		
Responsible Official (typed)	Ron Lee	Date	1/28/05
Responsible Official Title	Assistant General Manager	Phone	(918)445-4300

Limco Airepair, Inc.
5304 S. Lawton Ave.
Tulsa, OK 74107

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73101

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Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

[redacted]

Facility Information

PCE Memorandum

Add By: ringram
Add Date: 2/17/2005
Mod Staff ringram
Mod Date 2/17/2005

PCE Inspection ID	05187				
Facility	5304 S LAWTON AVE				
Company	LIMCO AIREPAIR INC & AERODUCT				
AIRS ID#	143-00155	Current Status	Operating	Classification	Syn-Min
NSPS:	n/a	NESHAP: n/a	NESHAP 6 T		
Last PCE Staff	Ingram	Last PCE Date	2/8/2005		

Inspection Information

Contact List

Inspection Staff:	Ingram	Ron	Enforcement	Oklahoma City	
Contact:	Lee	Ron	LIMCO AIREPAIR INC & AERODUCT		
PCE Reason:	MACT Review	PCE/Inspection Date:	2/8/2005	PCE/Inspection Time (24 hr):	9:00
Rpt Received Date:	2/7/2005	NSPS:	n/r	MACT: T	Neshap 61: n/r
Possible Violation	Yes	Enforcement Referral:	No	Date to Enforcement:	
AIRS entry date:					

Notes and Comments:

The annual reporting requirement as specified in 40 CFR 63.468 (f) requires submittal by February 1 of each year. The report is dated January 28, 2005, but the envelope indicates that it was not mailed until February 4, 2005, and received in Oklahoma City on February 7, 2005. Compliance with the submittal date requirement was not achieved.

The report includes the required items and states that 3027 lb/yr (1.0635 TPY) of solvent (Trichloroethylene) was used during year 2004. The emission limit for Trichloroethylene used in the degreaser listed in Permit 99-023-O (M-2) is 3.2 TPY, therefore compliance with the emission limit appears to have been achieved.

Specific Condition 3 of Permit #99-026-O (M-2) states: "All required reports shall be sent to the DEQ Regional Office at Tulsa." Since the report was sent to the Oklahoma City office, compliance with that permit specific condition was not achieved.

A copy of the report will be sent to the Tulsa office, who will contact the facility

STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION
707 N. ROBINSON SUITE 4100
P.O. Box 1677
OKLAHOMA CITY, OK 73101-1677

FAX

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Date: 2-17-05

Number of pages including cover sheet: 5

To:
Rhonda Jeffries
ROAT

Phone: (918) 293-1626

Fax phone: (918) 293-1631

CC:

From:
Ron Ingram

Phone: (405) 702-4100

Fax phone: (405) 702-4101

Remarks: ☐ Urgent ☑ For your review ☐ Reply ASAP ☐ Please Comment:

Limco Airepair MACT Report (PCE-05187).
entered

LIMCO Airepair, Inc.

RECEIVED
JUL 01 2010
AIR QUALITY

June 25, 2010

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2010 Degreaser Semiannual Exceedance Report

Enclosed is the semiannual exceedance report for January through June, 2010.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)		July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep	Oct – Dec
	Other Reporting Period	Beginning Date:			Ending Date:			

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	June 25, 2010
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:		
Exceedance:			Cite:	
Reason for the Exceedance:				
Actions Taken:				

Machine ID#:	NA	Date of Occurrence:		
Exceedance:			Cite:	
Reason for the Exceedance:				
Actions Taken:				

Machine ID#:	NA	Date of Occurrence:		
Exceedance:			Cite:	
Reason for the Exceedance:				
Actions Taken:				

Machine ID#:	NA	Date of Occurrence:		
Exceedance:			Cite:	
Reason for the Exceedance:				
Actions Taken:				

Machine ID#:	NA	Date of Occurrence:		
Exceedance:			Cite:	
Reason for the Exceedance:				
Actions Taken:				

PCE-36882

LIMCO Airepair, Inc.

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JUL 10 2014
AIR QUALITY

July 10, 2014

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2014 Degreaser Semiannual Exceedance Report

Enclosed is the Semiannual Exceedance Report for January through June, 2014.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)			July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun	Jul – Sep		Oct – Dec
	Other Reporting Period		Beginning Date:			Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

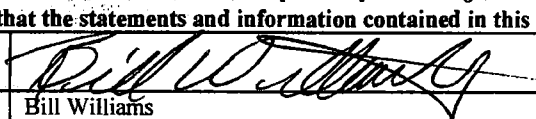
Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	July 10, 2014
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

TULSA OK 741
09 JUL 2014 PM 3 L

Okla. Dept. Of Env. Quality
Helen King
Air Quality Division
3105 E. Skelly Drive, Suite 200
Tulsa, OK 74105

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74105$6370

LIMCO Airepair, Inc.

RECEIVE
JUL 11 2014
AIR QUALITY

July 10, 2014

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2014 Degreaser Semiannual Exceedance Report

Enclosed is the Semiannual Exceedance Report for January through June, 2014.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVE
JUL 11 2014
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa		State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					

Reporting Period	Semiannual Reporting	X	January – June (Due July 30)		July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	July 10, 2014
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

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JUL 11 2014
AIR QUALITY

Okla. Dept. Of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

RETURN RECEIPT
REQUESTED

73101$1677 B015

PCE ID 17930

LIMCO Airepair, Inc.

RECEIVED
JUL 1 2011
AIR QUALITY

July 11, 2011

RECEIVED
JUL 12 2011
AIR QUALITY

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2011 Degreaser Semiannual Exceedance Report

Enclosed is the Semiannual Exceedance Report for January through June, 2011.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**

(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.					
Mailing Address	5304 S. Lawton Ave.					
City	Tulsa	State	Oklahoma	Zip	74107	
Facility Name	Limco Airepair, Inc.					
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.					
City	Tulsa	State	Oklahoma	Zip	74107	
Contact Person	Bill Williams	Title	Facilities Manager	Phone	919-445-4300	
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)					

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)		July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep	Oct – Dec
	Other Reporting Period	Beginning Date:					Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.

[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.

[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	July 11, 2011
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

LIMCO Airepair, Inc.

RECEIVED
JUL 12 2011
AIR QUALITY

July 11, 2011

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2011 Degreaser Semiannual Exceedance Report

Enclosed is the Semiannual Exceedance Report for January through June, 2011.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

Limco-Airepair, Inc. 5304 S. Lawton Ave. Tulsa, Oklahoma 74107
Phone: 918-445-4300

RECEIVED
JUL 12 2011
AIR QUALITY

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)			July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun	Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."
NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.
NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	July 11, 2011
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

11 JUL 2011 PM 5L 1

Okla. Dept. Of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
JUL 12 2011
AIR QUALITY

73101+1677

Limco Airepair

RECEIVED
JUL 17 2015
AIR QUALITY

July 9, 2015

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2015 Degreaser Exceedance Report

Enclosed is the semiannual exceedance report for 2015.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill Williams
Facility Safety/Environmental Manager

Limco-Airepair, Inc. 5304 S. Lawton Ave. Tulsa, Oklahoma 74107
Phone: 918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JUL 17 2015
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams		Title	Facilities Manager		Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)		July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar		Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period		Beginning Date:				Ending Date:	

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	July 9, 2015
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

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RECEIVED
JUL 17 2015
AIR QUALITY

RETURN RECEIPT REQUESTED

Okla. Dept. Of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

73101$1677 B015

LIMCO Airepair, Inc.

RECEIVED
JUL 22 2013
AIR QUALITY

July 1, 2013

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2013 Degreaser Semiannual Exceedance Report

Enclosed is the Semiannual Exceedance Report for January through June, 2013.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Bill Williams
Facilities Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**

(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JUL 22 2013
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period	Semiannual Reporting	X	January – June (Due July 30)			July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun	Jul – Sep		Oct – Dec
	Other Reporting Period	Beginning Date:				Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE Series Unit #2341/Still #2158	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X	No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

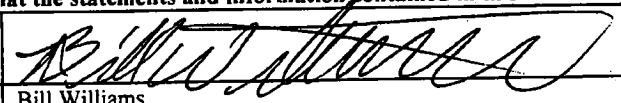
Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)			
Responsible Official (typed)	Bill Williams	Date	July 1, 2013
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Paradigm Consulting Group
P.O. Box 57
Bartlesville, Oklahoma 74005

TULSA OK 741

19 JUL 2013 PM 5 L

Okla. Department of Env. Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
JUL 22 2013
AIR QUALITY

731 01 #1677

Limco Airepair

RECEIVED
JUL 28 2016
AIR QUALITY

July 22, 2016

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2016 Degreaser Exceedance Report

Enclosed is the semiannual exceedance report for 2016.

Please feel free to contact me if there are any questions regarding these reports.

Sincerely,

Bill W Williams

Bill Williams
Facility Safety/Environmental Manager

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

RECEIVED
JUL 28 2016
AIR QUALITY

Owner/Operator/ Title	Limco Airepair, Inc.				
Mailing Address	5304 S. Lawton Ave.				
City	Tulsa	State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.				
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.				
City	Tulsa	State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager	Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)				

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)		July – December (Due January 30)			
	Quarterly Reporting		Jan – Mar	Apr – Jun		Jul – Sep		Oct – Dec
	Other Reporting Period		Beginning Date:			Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Ultronix HE503035 Unit #2341	Batch, dip	No
(Still Unit #2158)		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	July 22, 2016
Responsible Official Title	Facilities Manager	Phone	918-445-4300

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
NA		

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances."

Description of Exceedance, Actions Taken and Results of Actions (Continued)

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:	NA	Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

ERI SOLUTIONS INC.

~~125 N. First Street | Colwich, KS 67030~~

PO Box 57 Bartlesville OK 74005

TULSA OK 741

26 JUL 2016 PM 56 T

Oklahoma Department of
Environmental Quality-Air Quality Div.
P.O. Box 1677
Oklahoma City, OK 73101-1677

RECEIVED
JUL 28 2016
AIR QUALITY

73101$1677

LIM... Air ...r, Inc.

RECEIVED
NOV 06 2009
AIR QUALITY

PCE=14552

February 17, 2009

Oklahoma Department of Environmental Quality
Air Quality Division
P.O. Box 1677
Oklahoma City, OK 73101-1677

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: 2009 Degreaser Semiannual Exceedance Report

Enclosed is the semiannual exceedance report for January through June, 2009.

Please feel free to contact me if there are any questions regarding this report.

Sincerely,

Greg Steel for Bill Williams

Bill Williams
Facilities Manager

Limco-Airepair, Inc. 5304 S. Lawton Ave. Tulsa, Oklahoma 74107
Phone: 918-445-4300

EXCEEDANCE REPORT

FOR BATCH VAPOR OR IN-LINE HALOGENATED SOLVENT CLEANING MACHINES

Machines Complying With Either the **Equipment Standard** or the **Alternative Standard**
(Applicable Rule: 40 CFR Part 63, Subpart T)

Owner/Operator/ Title	Limco Airepair, Inc.						
Mailing Address	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Facility Name	Limco Airepair, Inc.						
Street Address (i.e., Physical Location)	5304 S. Lawton Ave.						
City	Tulsa			State	Oklahoma	Zip	74107
Contact Person	Bill Williams	Title	Facilities Manager			Phone	919-445-4300
List All Applicable Air Quality Permit/Authorization Number(s)	99-026-O (M-2)						

Reporting Period								
	Semiannual Reporting	X	January – June (Due July 30)			July – December (Due January 30)		
	Quarterly Reporting		Jan – Mar		Apr – Jun	Jul – Sep		Oct – Dec
	Other Reporting Period		Beginning Date:			Ending Date:		

Machine ID#	Machine Type[1]	Has an Exceedance Occurred During the Reporting Period?[2]
Tally S/N379	Batch, dip	No

[1]For each machine, indicate Machine Type as Batch Vapor or In-Line.
[2]For each machine, indicate either "Yes," followed by the number of exceedances, or "No Exceedances" or "Machine Inoperative."

NOTE: List additional machines on Page 2 of this form. Add additional copies of Page 2 as necessary.

X No exceedance of a parameter occurred during the reporting period, and no piece of equipment was inoperative, out of control, repaired, or adjusted during the reporting period. (Mark the box if this statement is true.)

Description of Exceedance(s), (Including Regulatory Citation[1]), Actions Taken[2], and Results of Actions

Machine ID#:	NA	Date of Occurrence:	NA
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

Machine ID#:		Date of Occurrence:	
Exceedance:		Cite:	
Reason for the Exceedance:			
Actions Taken:			

RECEIVED
NOV 06 2009
AIR QUALITY

[1]Under "Cite," list the section (and subsection, paragraph, subparagraph, etc. as applicable) of the requirement in 40 CFR Subpart T that was not met.
[2]Information should include description of actions taken to comply with 40 CFR § 63.463(e) and (f), including records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels. If an exceedance has occurred, include actions taken in response to the exceedance.

NOTE: Attach supplementary information as necessary. Report additional occurrences on Page 2 of this form. Add additional copies of Page 2 as necessary.

Certification: **This notification has been submitted as required by 40 CFR § 63.468(h). Based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this notification are true, accurate, and complete.**

Responsible Official (signature)	Bill Williams		
Responsible Official (typed)	Bill Williams	Date	November 4, 2009
Responsible Official Title	Facilities Manager	Phone	918-445-4300

TULSA OK 741

05 NOV 2009 PM 5 L

USA44

Oklahoma Department of
Environmental Quality-Air Quality Div.
Helen King
3105 E. Skelly Drive Suite 200
Tulsa, OK 74105

74105+6370

LIMCO Airepair, Inc.

RECEIVED
FEB 05 2013
AIR QUALITY

February 4, 2013

Oklahoma Department of Environmental Quality
Helen King
Air Quality Division
3105 E. Skelly Drive
Suite 200
Tulsa, Ok 74105

Re: Replacement of Vapor Degreaser

Dear Ms. King:

Enclosed are vapor degreaser specifications for a new vapor degreaser that replaced the current vapor degreaser and began operating on January 1, 2013.

Please feel free to contact me if there are any questions regarding the vapor degreaser.

Sincerely,

Bill Williams

Bill Williams
Facility Manager

2880 Bergey Road
Hatfield, PA. 19440

PH: 800-553-7881
FX: 215-822-9622

www.ultronix.com
Email: zoc@ultronix.com

ULTRONIX INC

RECEIVED
FEB 05 2013
AIR QUALITY

August 22 2012

LIMCO AIREPAIR, INC.
5304 S. Lawton Ave.
Tulsa, OK 74107

918-445-4300
Fax: 918-445-2210

QUOTE # 12UL115 REVB

ATTN: Mr. Joshua Given
Joshuag@limcoairepair.com
ATTN: Monty Eddington
Montye@limcoairepair.com

Ultronix hereby agrees to sell to the above Corporation (and/or Division) the apparatus and equipment described in the specifications below. They are to be delivered F.O.B., Hatfield, PA, with all prices firm for 30 days from the quotation date.

GENERAL DESCRIPTION AND SPECIFICATIONS

PROPOSED MODEL: Model HE503035 Vapor Spray Degreaser complete with a 1.5 HP low temperature Zer-O-Coil solvent control system.

PRODUCTION CAPACITY: Basket cleaning from overhead hoist.
(Baskets not include)

DEGREASER DIMENSIONS AND CAPACITY:

Inside vapor dimensions	-	60" Long x 30 Wide x 42" Deep

VAPOR AIR INTERFACE 60" X 30" = 12.5 SQUARE FEET
1.16 SQUARE METERS

Inside boiling dimension	-	48" Long x 30 Wide x 12" Deep
Approx. outside dimensions	-	126" Long x 54" Wide x 80" High**
Boiling sump liquid capacity	-	75 Gallons
Spray sump reservoir	-	10 Gallons
TOTAL SOLVENT REQUIREMENT:		**90 GALLONS**

****Note: Layout is refrigeration on the side of the degreaser, optional locations are available.**

CONSTRUCTION: Tank will be fabricated of 11 gauge, 304 type stainless steel, heliarc welded with structural steel reinforcing, as required. The pipe fittings welded to the tank and solvent collection troughs are type 304 stainless steel. Heated section of tank to be insulated with 1" fiberglass insulation and attractively sheathed with 20 gauge type, 304 stainless steel. All exposed structural steel will be properly prepared, and a coat of machinery gray enamel will be applied and air dried.

WATER SEPARATOR: Water separators are specifically designed for each degreaser solvent condensing system to remove the maximum amount of moisture. The separators are fabricated from type 304 stainless steel, with 304 stainless steel fittings. The separator is supplied with a removable lid. The solvent flowing through the separator returns to the degreasing system through the storage tank (spray reservoir) and back into the boiling sump.

HEATING SYSTEM: 28KW electric heat elements mounted in a large cleanout door in the boiling sump of the degreaser. Modulating energy control to activate standby elements to maintain constant minimum vapor flow.

PRIMARY CONDENSER: Multi passes of stainless tube refrigeration coils around inside perimeter of tank. **The freeboard ratio is 100 percent of working width.**

ZER-O-COIL: Balanced low temperature refrigeration system to control the (length x width) vapor air interface of the degreaser. Multiple passes of finned refrigeration coils around inside perimeter of degreaser directly above the primary condensing system. This system runs continuously without a defrost cycle. If the degreaser water condensing should fail, the refrigeration system will automatically "pump-down" to prevent the system from freezing and bursting the water coils inside the tank.

FREEBOARD REFRIGERATION DEVICE OPERATING AT -10 TO -30 F. TO DEVELOP A COLD AIR BLANKET ABOVE THE VAPOR ZONE IN THE MIDDLE OF THE TANK. MINIMUM TEMPERATURE IS 30 PERCENT OF THE BOILING POINT OF THE SOLVENT.

ELECTRICAL CONTROLS: A general purpose NEMA 12 control panel to furnish all necessary fuses, control transformer, motor starter(s), contactor(s), relays, etc. Prewired to a terminal strip. All machine mounted wiring is rigid conduit and enclosed to N.E.C. standards. Control panel is complete with necessary switches for safe operation. Pilot lights are supplied for all switches, and all safety controls to permit quick diagnosis by maintenance.

UTILITIES: Electrical current: 460 Volt - 3 Phase - 60 Hertz (max. amps 50)
1.4 Gallon per minute of city or well water for cooling (5 GPM if tower water or chilled water is available)

Motors: 1.5 H.P. Zer-O-Coil Compressor
1/3 H.P. Filter/Spray Pump Motor

CONTROLS: All safety and energy controls to meet all Federal, State, and local government regulations are standard equipment. Please refer to the attached list for a more complete description.

SPRAYING SYSTEM: System has a solvent resistant hose with hand-held spray lance. 1" x ¾" centrifugal type close-coupled pump and open drip proof motor, solvent supplied from distillation trough to storage tank. .

PRIMARY CHILLED WATER CONDENSING SYSTEM: 7.5-Ton Portable refrigeration cooling system water chiller package. Air-cooled refrigerated condensing unit supplied with digital set point, controller with constant L.E.D. process water temperature readout. Stainless steel (304-grade) tanks with state of the art brazed plate evaporators built of stainless steel and vacuum brazed with copper for increased heat transfer and surface area. Large full flow "Y" strainers and rugged cast iron head pumps that are thermal or safety fuse protected. Features pump only switch positions for circulation without cooling, low-pressure safety, high-pressure safety, freeze protection safety, internal overload safety. Start assist systems on all single-phase units to assure quick restart on load change. Also features rugged base frames of welded steel channel either anti-corrosion painted or hot dip galvanized.
Power: Available in: 480 VAC, 3 Phase

USED SOLVENT DISTILLATION UNIT: Rebuilt Baron Blakeslee distillation unit electric heated water cooled solvent recovery stills.

Size: 42" front to back, x 22" side to side, x 50" high. Tank should have clearance on the cleanout door side for removal. Approx 12 – 11 gauge stainless steel.

Electrical Requirements: NEMA 12 electric enclosure complete with all safeties and controls for proper operation. 460 Volt - 3 Phase - 60 Hertz. 15 amps for 15 G.P.H. (Optional voltage available)

The top of the distillation unit will be sealed and vented the top of the main distillation tank, and water separator to the degreaser. This will eliminate the possible pressure build up in the still, and residual vapor will be recovered in the degreaser (under the refrigeration unit.) Inspect all the safety controls for proper operation of the still with customer's choice of solvent. The solvent still mounted floor level with the degreaser. Valve and tubing connecting boiling sump of the degreaser and still for gravity supply from degreaser to still sump motor supplied to be installed between the degreaser and still boiling sumps to pump either sumps to holding drum(s) [holding drums not supplied]. . Distillate from still to flow into spray sump of degreaser.

DELIVERY: Based on current conditions at time of quotation, lead time for this unit is 15 to 18 weeks upon receipt of order. **Actual delivery date will be established at time of order and deposit.**

INSTALLATION: The customer is responsible for the installation and placement of the equipment. If you choose Ultronix to install the equipment please contact us for a quote.

Taxes, licenses, fees and permits required by the state and/or local municipality for the installation, connection and inspection of the equipment are the responsibility of the customer.

Shipment: F.O.B. Hatfield, PA.

WARRANTY, TERMS AND CONDITIONS: Please refer to the attached warranty sheet. If terms and conditions are not attached, document is null and void.

ADDITIONALLY LIMCO HAS AN AIR POWERED SLIDING LID. THE LID REMAINS CLOSED UNTIL THE FOOTSWITCH IS PRESSED TO OPEN. AS SOON AS THE OPERATOR WALKS AWAY FROM THE UNIT, THE LID CLOSES.

PRICE:

*****Crating if required will be an additional charge.**

OTHER PERTINENT NOTES

EQUIPMENT WIRED TO N.E.C. AND N.F.P.A. 79 STANDARDS: Deviations from these standards are available upon customer's specific request, which must be referenced in the purchase order. Ultronix cannot be held liable for any wiring, which deviates, from these national standards.

Wiring change requests received by Ultronix after the unit is placed into production will result in additional charges to the customer to cover our costs of rewiring. (Labor to perform rework and parts if applicable.)

CHANGE REQUESTS

CHANGES AFFECTING THIS QUOTATION – PRIOR TO CUSTOMER ORDER BEING RELEASED: Subsequent to quote being rendered to customer, any verbal statements/comments/requests affecting or changing the content, terms or conditions of the quote – by either party – are invalid unless followed up in writing, acknowledged, and agreed to by both parties. These modifications to the quote must take the form of a formal change order and must be specifically referenced in the customer purchase order – at the time the order is released to be valid and in effect.

CHANGE REQUESTS RECEIVED BY ULTRONIX – AFTER CUSTOMER PURCHASE ORDER HAS BEEN RECEIVED: All Customer change requests must be made in writing – faxed and mailed – with Ultronix acknowledging receipt. Should any change so ordered cause rework and/or a material increase in the cost of/or the time required in the manufacture process, an equitable adjustment shall be

made in the order price or time of performance or both. Ultronix shall, unless written instructions to the contrary have been received from buyer, proceed with the work as changed without interruption and without awaiting settlement of any such claim.

Again, thank you for the opportunity to be of service and to quote your equipment specifications. Please contact our sales and engineering department referencing this quote number, should you need additional information, have questions about its contents, or wish to modify the equipment we have proposed.

Sincerely,

Carl Wolf
ULTRONIX, INC.

LIST OF TYPICAL OPERATING & SAFETY CONTROLS AVAILABLE

A. SAFETY VAPOR CONTROL:

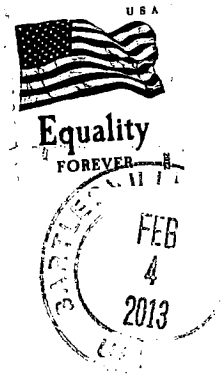
If there is inadequate flow or warm water entering the primary condensing coils, the solvent vapor can rise and overflow the degreaser. A thermocouple or sensing bulb is located directly above the primary coils. Solvent vapor reaching the sensor will cause the heat input to the boiling sump to shut off. In most cases, the poor coolant conditions must be rectified before the degreaser can be restarted. The manual reset button on the control must be depressed.

B. LIQUID HIGH TEMPERATURE:

When the boiling solvent becomes contaminated with an excess of oil from the degreasing operation, the temperature of the mixture will rise eventually to a point where degreasing efficiency is impaired. A thermocouple or sensing bulb in the boiling liquid will cause the heat input to shut off at the preset temperature. A digital readout (optional) will allow maintenance to monitor the status of the solvent and schedule solvent replacement.

******TO RESET CONTROLS** – Press & Hold the Set Button until it Resets

PO Box 57
Bartlesville Ok
74005



RECEIVED
FEB 05 2013
AIR QUALITY

Okla. Dept. Of Env. Quality
Helen King
Air Quality Division
3105 E. Skelly Drive, Suite 200
Tulsa, OK 74105

74105$6370 C022

REC JAN 17, 2002
JFly

HALOGENATED SOLVENT CLEANER NESHAP

Annual Report

PART TWO - Information Required per Cleaning Machine
(Make copies for additional machines as necessary)

Cleaner Identification Number: Tally Degreaser S/N 379

Check compliance option chosen and fill out appropriate report requirements.

☒ Control Options

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the required operator test.

Signature 1/16/02 Date

Previous Year's Solvent Consumption 1605 lbs/yr. / 3.66 TPY

☐ Alternative Standard

Cleaning machine size:

Solvent-air interface area _____ m^2

or

Solvent cleaning capacity _____ m^3

Average monthly solvent consumption _____ kg

Three month rolling average emission estimates: (calculations attached)

1. _____ kg From _____ To _____
Date Date

2. _____ kg From _____ To _____
Date Date

3. _____ kg From _____ To _____
Date Date

FAC 3620 C/E

Rec Feb 5, 2003

JFly

LIMCO Airepair, Inc. & Aeroduct

February 04, 2003

Oklahoma Department of Environmental Quality
Jack Fly
3105 E. Skelly Drive
Suite 200
Tulsa, OK 74105

Re: 2002 Degreaser Annual Report

Mr. Fly
I have attached the Halogenated Solvent Cleaner NESHAP Annual Report Document for Limco Airepair. Feel free to contact me at (918) 445-4300 if there are any questions regarding this report.

Sincerely,

Bob Johnson
Vice President CFO

REC FEB 5, 2003
JFly

HALOGENATED SOLVENT CLEANER NESHAP
Annual Report

PART TWO- Information required per Cleaning Machine
(Make copies for additional machines as necessary)

Cleaner Identification Number: Tally Degreaser S/N 379

Check compliance option chosen and fill out appropriate report requirements.

☒ Control Options
All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the required operator test.

Signature _____ Date 02/04/2003

Pervious Year's Solvent Consumption: 407 gal/yr. / 3.66 TPQ

☐ Alternative Standard

Cleaning Machine Size:
Solvent-Air Interface Area: _____ m^2
Or
Solvent Cleaning Capacity: _____ m^3

Average Monthly Solvent Consumption: _____ kg

Three Month Rolling Average Emission Estimates:
(calculations attached)

1. _____ kg From _____ (Date) To _____ (Date)
2. _____ kg From _____ (Date) To _____ (Date)
3. _____ kg From _____ (Date) To _____ (Date)

LIMCO Airepair, Inc.
& Aeroduct

RECEIVED
FEB 6 2004
DEPT. OF ENVIRONMENTAL QUALITY
REGIONAL OFFICE AT TULSA

February 02, 2004

Attn: Air Quality Division
Oklahoma Department of Environmental Quality
3105 E. Skelly Drive
Suite 200
Tulsa, OK. 74105

Re: 2003 Degreaser Annual Report

I have attached the Halogenated Solvent Cleaner NESHAP Annual Report Document for Limco Airepair. Feel free to contact me at (918)445-4300 if there are any questions regarding this report.

Sincerely,

Michael Lowther
Operations Manager

LIMCO-AIREPAIR, INC. 5304 SO. LAWTON AVE. TULSA, OKLAHOMA 74107 USA
PHONE (918) 445-4300 - - FAX (918) 445-2210

HALOGENATED SOLVENT CLEANER NESHAP:

Annual Report

PART ONE - General Information

Person Preparing Report Lowther, Michael Date 2/2/04
Last Name, First Name, Middle Initial

Company Name Limco-Airepair, Inc.

Mailing Address 5304 S. Lawton Ave.
Number, Street, City/Town, State, Zip Code

Intended Equipment
Location Address same
Number, Street, City/Town, State, Zip Code

Cleaning Machine Summary

Identification Number	Description
Tally Degreaser S/N 379	Trichloroethylene Degreaser

HALOGENATED SOLVENT CLEANER NESHAP

Annual Report

[**NOTE**: Annual report was modified on 8/8/01 - additional lines were added so that 12-months of data could be recorded on one form.. The original form has three lines, instead of 12]

PART TWO - Information Required per Machine
(Make copies for additional machines as necessary)

Cleaner Identification Number: Tally Degreaser S/N 379

Check compliance option chosen and fill out appropriate report requirements.

G Control Options

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the required operator test.

Michael Foulkes — Signature

2/4/04 — Date

Previous Year's Solvent Consumption 4392 kg/yr (or lb/yr).

G Alternative Standard

Cleaning machine size:

Solvent-air interface area _____ m^2 (or ft^2)
or
Solvent cleaning capacity _____ m^3 (or ft^3)

Average monthly solvent consumption _____ kg (or lb)

HALOGENATED SOLVENT CLEANER NESHAP

Annual Report

PART TWO - Information Required per Cleaning Machine
(Make copies for additional machines as necessary)

Cleaner Identification Number: Tally Degreaser XL10CW

Check compliance option chosen and fill out appropriate report requirements.

☒ Control Options

All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the required operator test.

[signature] 11-14-01
Signature Date

Previous Year's Solvent Consumption 1368 lbs/yr. (trichlor. only)

☐ Alternative Standard

Cleaning machine size:

Solvent-air interface area _____ m^2
or
Solvent cleaning capacity _____ m^3

Average monthly solvent consumption _____ kg

Three month rolling average emission estimates: (calculations attached)

1. _____ kg From _____ To _____
Date Date

2. _____ kg From _____ To _____
Date Date

3. _____ kg From _____ To _____
Date Date

Print Form | Submit by Email

See Page 4 for Instructions

DEQ FORM 605-006

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).

See Instructions On Page 4 of The Form.

Section I.

OPDES Permit Authorization Number: OKR050659

RECEIVED
FEB 07 2012
DEQ ECLS

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 2-1-12

Signature: Bill Williams Title: Director of Facilities

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period: 2011.

✓ How many routine facility inspections did you perform during the reporting period? 4

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
	NONE		

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☒ No ☐

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☐ No ☐ All BMPs were being implemented ☒

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?
Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)
Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?
Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1. New pollutant source (including exposure of previously unexposed material).
2. Failure to implement or maintain an existing BMP.
3. Less than expected performance from a BMP.
4. No BMP was selected to deal with that problem.
5. N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1. Eliminated exposure or pollutant source.
2. Modified existing BMPs.
3. Added a new BMP.
4. Plan to address problem by end of current reporting year.
5. Nothing planned.
6. N/A (No problems identified).

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?
Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results.

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

Instructions for Completing the Annual Comprehensive Site Compliance Evaluation Report Form 605-006, Storm Water Discharges Associated with Industrial Activity

When To File an ACSCER Form:

Permittees who are presently covered under an issued OPDES general permit for storm water discharges associated with industrial activity must submit an Annual Comprehensive Site Compliance Evaluation Report by March 1 st of each year, beginning in 2007. This is in lieu of filing analytical benchmark discharge monitoring reports. If you need assistance or have questions, contact the Storm Water Program of the Environmental Complaints & Local Services of the DEQ at (405) 702-6100.

Section I: Permit Information:

Enter the existing OPDES General Storm Water Multi-Sector Industrial Permit number assigned to the facility identified in Section II.

Section II. Facility Operator Information:

Give the legal name of the person, firm, public organization or any other entity that owns or operates the facility described in this application. The name of the operator may or may not be the same name as the facility. The operator of the facility is the legal entity that controls the facility's operation, rather than the plant or site manager.

Section III: Facility/Site Location Information:

Enter the facility's official or legal name and complete address, telephone, city, state, and ZIP code. If the facility lacks a street address, indicate the latitude and longitude of the facility to the nearest 15 seconds.

Section IV: Certification

The ACSCER form must be signed by a responsible party such as the owner or an officer, such as: president, vice president, secretary, and treasurer of either a corporation, company, trust, partnership, or sole proprietorship by a general partner or the proprietor. For a municipality, state, Federal, or other public facility: by either a principal executive officer or ranking elected official.

How to complete the Comprehensive Site Compliance Evaluation Report Part B (see Section 4.2.15)

1. Inspect all areas where materials or activities are exposed to storm water, and areas where spills and leaks have occurred within the past 3 years.
2. Report industrial material, residue or trash on the ground that could contaminate or be washed away.
3. Prevent leaks or spills from industrial equipment, drums, barrels, tanks, etc.
4. Prevent offsite tracking of industrial material or sediment.
5. Prevent tracking or blowing of raw, final, or waste material from areas of no exposure to exposed areas.
6. Include evidence of, or potential for pollutants entering the drainage system.

Follow-up Actions:

1. Modify your SWP3 as necessary as required by Part 4.
2. Complete revisions to the SWP3 within 14 days following the inspection.
3. Complete modifications to the BMPs before the next anticipated storm event or as soon as practicable.
4. Report the name(s) of the personnel making the inspection, date(s), major observations, and incidents of non-compliance.
5. Complete the certification that the facility is in compliance with the updated Storm Water Pollution Prevention Plan and BMPs.

Reporting is required by March 1 st of the year beginning in 2007.

Where to File an ACSCER :

DEQ - ECLS
Storm Water Program
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

Print Form | Submit by Email

See Page 4 for Instructions

DEQ FORM 605-006

Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report for Industrial Facilities (ACSCER)

Submission of this Comprehensive Site Compliance Evaluation Report, Part B, provides notice that the party identified in Section I of this form is not required to conduct Benchmark Monitoring for storm water discharges associated with industrial activities under the OPDES program. This Annual Comprehensive Site Compliance Evaluation Report is required for all authorized industrial facilities.

All Requested Information Must Be Provided on This Form (Part A) and the ACSCER Form (Part B).
See Instructions On Page 4 of The Form.

Section I.
OPDES Permit Authorization Number: OKR05~~0659~~ 1059

Section II. Facility Operator Information

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave.

City: Tulsa County: Tulsa Zip Code: 74107

Section III. Facility Location

Name: Limco-Airepair, Inc. Phone: (918) 445-4300

Address: 5304 South Lawton Ave

City: Tulsa County: Tulsa Zip Code: 74017

Latitude: 39.0516 N Longitude: 96.0003 W

Section IV. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 st of each year beginning in 2007.

This report is also to be retained as part of the SWP3 for at least three (3) years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this permit as part of the Storm Water Pollution Prevention Plan will be retained for at least three (3) years from the date permit coverage expires or is terminated. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly involved in gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: Bill Williams Date: 2-8-11

Signature: Bill Williams Title: Director of Facilities

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FEB 11 2011
DEQ ECLS

mf

Annual Comprehensive Compliance Site Evaluation Report - Part B
Page 1.

Reporting Period 2010

✓ How many routine facility inspections did you perform during the reporting period? 2

✓ How many total deficiencies in implementing your SWP3 and complying with your permit were noted in any inspection?

Date	Deficiencies	Corrected (Y or N)	Date Corrected
	NONE		

✓ What must you do to correct the deficiencies that remain uncorrected?
NA

✓ Were all BMPs you indicated you would be using in your SWP3 (Part 4 2 8) including good housekeeping practices, actually being implemented at the time of the annual Comprehensive Site Compliance Evaluation?
Yes ☐ No ☒

✓ If one or more BMPs were not being implemented, were corrective actions taken after the FIRST inspection to find the problem?
Yes ☒ No ☐ All BMPs were being implemented ☐

✓ Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?
Yes ☐ No ☐ No deficiencies noted in any inspection ☒

✓ Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?
Yes ☐ No ☐ All BMPs were effective ☒

✓ If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?
Yes ☐ No ☐ All BMPs were being effective ☒

✓ At any time during the reporting period, did you discover any illicit discharges from your facility?
Yes ☐ No ☒

✓ Have all illicit discharges (including any discovered in previous years) been eliminated or permitted?
Yes ☐ No ☐ Permit applied for ☐ No known illicit discharges ☒

✓ Have any significant spills or leaks occurred at your facility during the reporting period?
Yes ☐ No ☒

✓ If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with storm water (as opposed to the spilled material being washed away by storm water?)
Yes ☐ No ☒

Part B. Page 2

✓ If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in storm water? Base your answer on your knowledge of the material you spilled or that leaked The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc) of the spilled or leaked material from amounts left after normal "sweeping" type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ Have all known spills or leaks been cleaned up or otherwise prevented from contaminating storm water that would be discharged under the authority of this permit?

Yes ☐ No ☐ No spills or leaks occurred ☒

✓ How many times did you visually monitor all your storm water discharges during the reporting year? (Count only those done in accordance with the procedures at Part 5 1 - Quarterly Visual Monitoring)

Number 4

✓ Would the results of your visual monitoring indicate that there are pollutants in your storm water discharges that are not adequately controlled by your current BMPs?

Yes ☐ No ☒

✓ If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following? 5 - N/A

1 New pollutant source (including exposure of previously unexposed material)
2 Failure to implement or maintain an existing BMP
3 Less than expected performance from a BMP
4 No BMP was selected to deal with that problem
5 N/A (No problems identified)

✓ If your visual monitoring indicated a potential problem, what have you done to resolve the problem? 6 - N/A

1 Eliminated exposure or pollutant source
2 Modified existing BMPs
3 Added a new BMP
4 Plan to address problem by end of current reporting year
5 Nothing planned
6 N/A (No problems identified)

✓ Did any analysis of any element tested during any previous discharge monitoring period exceed the numeric limitation value?

Yes ☐ No ☒

✓ If your answer to the previous question was "Yes", please name the element and the test results

Element	Test Results	Element	Test Results
N/A	N/A	N/A	N/A

CK D31299
$430
11/30/11

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DEC 08 2011
DEQ ECLS

See Reverse Side for Instructions

OPDES FORM 605-002B	DEQ OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY	**Oklahoma Department of Environmental Quality (DEQ) Notice of Intent (NOI) for Storm Water Discharges Associated With INDUSTRIAL ACTIVITIES Under the OPDES Multi-sector Industrial General Permit OKR05**

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by the DEQ for storm water discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. IN ORDER TO OBTAIN AUTHORIZATION, ALL REQUESTED INFORMATION MUST BE PROVIDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF THE FORM.

☒ NEW APPLICATION ☐ MODIFICATION OF CURRENT PERMIT Enter previous permit authorization number, if any: OK RQ50659

I. Facility Owner/Operator Information

Name: LIMCO-AIREPAIR, INC. Phone: (918) 445-4300

Mailing Address: 5304 SOUTH LAWTON AVE. Status of Owner/Operator: P

City: TULSA State: OK Zip Code: 74017 - Email Address: BILLW@LIMCOAIREPAIR.COM

II. Site Information

Name of the Facility: LIMCO-AIREPAIR, INC.

Location of Facility: 5304 SOUTH LAWTON AVE.

City: TULSA Zip Code: 74017 -

Latitude: ~~35.09.10 N~~ 36° 5' 14.494" Longitude: ~~96.00.3 W~~ - 96° 0' 6.95" County: TULSA

III. Facility Activity

MS4 Operator: TULSA

Receiving Water Body: MOOSER CREEK (ARKANSAS RIVER)

Is the receiving water body on the DEQ 303(d) impaired water list? ☒ Yes ☐ No

SIC or Designated Activity Code and Sector Primary : 3728 Sector: AB Secondary : 1 Sector: F

Is your SWP3 developed? ☒ Yes ☐ No Are you required to submit Discharge Monitoring Reports ? NO (Yes) or (No)

R 11-01850

ENDANGERED SPECIES ELIGIBILITY

a. ☐ My facility is not located in or draining to Federal and State sensitive waters and watersheds.

b. ☒ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Exhibit 1.

c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions attached to that certification.

IV. Certification: All Applicants:

I certify under penalty of law that I have read and understand Part 1.2 of the permit eligibility requirements for coverage under the Storm Water Multi-Sector Industrial General Permit, including those requirements relating to the protection of endangered or threatened species or critical habitat, Exhibit 1. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Storm Water Multi-Sector Industrial General Permit is contingent upon maintaining eligibility as provided for in Part 1.2

Print Name: BILL WILLIAMS Date: 12-2-11

Signature: [signature] Title: DIRECTOR OF FACILITIES & EHS

For DEQ use Only: Assigned Authorization Number: OKR05 1059

Supp ID 12412 Permit ID 12632 (3.79mi)

OKR05[illegible]059

Limco - Airepair, Inc

Amber

3/22/2012

Industrial SWPPP Checklist

Pollution Prevention Team (Part 4.2.1)

Page 2-3 Identify the staff individual(s) by name or title.

Site Description (Part 4.2.2)

Page 4 Description of Activities

~~General Location Map~~

Legible Site Map identifying the following:

- The size of the property in acres Sacrer
- The location of significant structures and impervious surfaces
- Directions of storm water flow
- Locations of all existing structural BMPs
- Locations of surface waters on or adjacent to the facility, indicating if any of the waters are impaired and, if so, whether the waters have TMDL's established for them
- Locations of all storm water conveyances including ditches, pipes, and swales
- Locations of potential pollutant sources and where significant materials are exposed to storm water
- Locations of where significant spills or leaks have occurred
- Locations of all storm water monitoring points, if any
- Municipal Separate Storm Sewer Systems, where your storm water discharges to them
- Locations of storm water inlets and outfalls indicating if you are treating one or more outfalls as "substantially identical" and an approximate outline of the area draining to each outfall
- Location and description of all non-storm water discharges
- Locations of where the following are located and exposed: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for treatment, storage or disposal of wastes; liquid storage tanks; processing and storage areas; access roads, rail lines used by carriers of materials/products; the location of any transfer area for substance in bulk; and machinery
- Location and source of run-on to your site from adjacent property that contains significant quantities of pollutants

Page 16 **Name of Receiving waters (Part 4.2.3)**

Page ✓ **Potential Pollutant Sources (Part 4.2.4):** Identify areas at your facility where industrial materials or activities are exposed to storm water and for each separate area identify the following:

- Activities in the area attachment
- Pollutants

Page ✓ **Potential Spills and Leaks (Part 4.2.5)** attachment

Page ✓ **Sampling Data (Part 4.2.6)** attachment

Page 7 **BMP Types to be Considered (Part 4.2.8)**

- Non-Structural BMPs
  - Good Housekeeping
  - Minimizing Exposure
  - Preventive Maintenance
  - Spill Prevention & Response
  - Routine Facility Inspections
  - Employee Training
- Structural BMPs
  - Sediment & Erosion Control
  - Management of Runoff

Page 7 **Other Controls (Part 4.2.9)**

- Waste, Garbage, Floatables not discharged
- Off-site Tracking
- Velocity Dissipation
- Location of any storage piles containing salt, may need to be enclosed or covered

Page 10 **Maintenance (Part 4.2.10)**

Page 8 **Allowable Non-Storm Water Discharges (Part 4.2.11)**

- Identification of each allowable non-storm water source
- The location where it is likely to be discharged
- ~~Descriptions of appropriate BMPs for each source~~

Page 8 **Certification of Non-Storm Water Discharges (Part 4.2.12)**

- ~~The date of any testing and/or evaluation~~
- Identification of potential significant sources of non-storm water at the site
- The actions taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified.
- A description of the results of any test and/or evaluation for the presence of non-storm water discharges
- A description of the evaluation criteria or testing method used
- A list of the outfalls or onsite drainage points that were directly observed during the test

Page 20 ~~**Certification of the SWP3 (Part4.2.13)**~~

Page ____ ~~**Documentation of Permit Eligibility related to TMDL (Part 4.214)**~~

Page 46 **Documentation of Permit Eligibility related to Endangered Species (Part 4.2.15)**

- Information on Threatened or Endangered Species or Critical Habitat
- Determine if Your Facility is Within a Sensitive Water or Watershed
- ~~Document the Results of Your Screening~~
- Describe the Protection Measures Required
  - ~~Pollutants such as oil, grease,~~ solid waste, human waste, hazardous or other material not authorized for discharge under the permit must be properly captured, treated, and correctly disposed of
  - NELM Monitoring N/A
  - Schedule of Inspections monthly
  - Emergency Spill Plan

Large spills enviro. clean up company

Page 17 **Comprehensive Site Compliance Evaluation (Part 4.2.17)**

Page ____ **Applicable State or Local Plans (Part 4.3)**

Page 19 **Maintaining Updated SWP3 (Part 4.4)**

ENTERED

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

May 9, 2013

Bill Williams
Director of Facilities, Maintenance, and
Environmental Health and Safety
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

09-303

RE: Limco Airepair Withdrawl

Dear Mr. Williams:

Per our previous conversation, it is my understanding that you no longer wish to continue participation in the Voluntary Cleanup Program. We have started the process of closing the file and reimbursing you the remaining funds left in your account with us. Could you provide a letter confirming your desire to leave the program to finalize this process? Thank you for your assistance in this matter.

Sincerely,

C. Jordan Caldwell
Environmental Programs Specialist
DEQ Land Protection Division
Voluntary Cleanup Program
(405) 702-5134

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION

ENTERED

IN THE MATTER OF:	)	
	)	
LIMCO AIREPAIR, INC.,	)	**Case No.: 09-303**
	)	
RESPONDENT.	)	

OKLAHOMA
DEPT. OF ENVIRONMENTAL QUALITY

NOV 20 2009

FILED BY: _____
HEARING CLERK

MEMORANDUM OF AGREEMENT AND CONSENT ORDER FOR SITE CHARACTERIZATION

The parties to this case, the Oklahoma Department of Environmental Quality ("DEQ") and Limco Airepair, Inc. ("Respondent") (collectively, "Parties"), agree to this Memorandum of Agreement and Consent Order for Site Characterization ("MACO") in order to resolve certain environmental regulatory issues. At the time of the execution of this MACO, Respondent is entering the DEQ's Voluntary Cleanup Program ("VCP").

FINDINGS OF FACT

1. Respondent is Limco Airepair, Inc.

2. Respondent's real property being characterized pursuant to this MACO ("Site") is located at 5304 South Lawton Avenue, Tulsa, Oklahoma. Respondent is the owner of the Site.

3. Respondent informs the DEQ that historical activities, that are the source of, or may have contributed to the potential contamination being investigated, appear to have been caused by chemicals that were either spilled onto the property incident to manufacturing activities being conducted on the site or that were leaked onto the property from an off-site location.

4. Respondent informs the DEQ that the following environmental permits, registrations, authorizations, orders, enforcement actions or National Priorities List (NPL)

activities are applicable to the respondent or the Site:

Environmental Permits
➢ Tier 2 (State) - A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.
➢ TRIS (Federal) – Toxic Chemical Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.
➢ AIRS – (State) – Permitted AIRS facility (air permit)
➢ RCRA – LQG (Federal) – Resource Conservation Recovery Act – Large Quantity Generator. RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.
➢ NPDES – National Pollutant Discharge Elimination System.
➢ Storm Water Pollution Prevention Plan (SP3).
➢ EPA Form "R".
Environmental registrations
• The subject site facility, Limco Airepair is reported to be a RCRA-LQG (EPA ID: , OKR000000612). The facility was originally reported to be a Small Quantity Generator in 1995 but changed to a LQG in 2000. The facility generates the following wastes: solvents (lacquer thinner), caustic acid (sodium hydroxide), chromium, trichloroethylene, solvent mixtures (toluene, methyl ethyl ketone), and cadmium. The facility had 19 reported violations in January 1999 and as of July 1999 all 19 violations were in compliance. Two (2) additional violations were reported in January 2007 and were in compliance as of March 9, 2007. The violations consisted of used oil

generators, pre-transport generator and general generators and the 19 violations from 1999 were informal written violations. According to EDR and EPA information, the Limco Airepair facility is currently in compliance.
• The subject site is reported on the Tier 2 database (Facility ID: FATR200724U7GT002YBJ). Since the facility stores certain chemicals on-site, it is required to report those chemicals, the stored quantity, the type of storage container, and location of each chemical. The reported chemicals on the Tier 2 include: Hydrogen Fluoride, Nitric Acid (>40%), and Sulfuric Acid. There have been no reported releases of these chemicals on-site.
• The subject site is reported to be a TRIS facility (Facility ID: 74107LMCRP53). Currently the subject site releases approximate 8,260 pounds of Toluene (TRI Chemical ID: 000108883) from fugitive or non-point air emissions. Any Toluene waste is transferred to an off-site facility for treatment and disposal. The facility previously released Methyl Ethyl Ketone and Trichloroethylene but no longer generates these chemicals. Limco Airepair is currently in compliance with their Air Quality Permit.
Current and Historical Environmental Conditions (Violations)
• RCRA violations
Use Oil – Generators (Determined 1/30/2007 and Compliant 3/09/2007)
Generators – Pre-transport (Determined 1/30/2007 and Compliant 3/09/2007)
Generators – General (Regulation FR 262.34(a)(2)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(4)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.31(a)(4)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(c)(1)(ii)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(3)) (Determined

01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation SR 252:520-2-7) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34b) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.11) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262334(a)(1)(i)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation SR 205-5-1) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 268.7(a)(7)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(c)(1)(i)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(1)(1)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.23(a)(3)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.23(a)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(c)(2)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.11(A)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(1)(i)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)
Generators – General (Regulation FR 262.34(a)(1)(ii)) (Determined 01/19/1999, Enforcement on 04/08/1999, and Compliant 07/06/1999)

5. Respondent informs the DEQ that, to its knowledge, the following

conditions currently exist or have existed in the past at the Site that are or were not in compliance with any environmental laws or regulations:

Compliance Summary
• 01/30/2007 Compliance Evaluation Inspection On-site (Generators Pre-Transport) (achieved compliance on 03/09/2007)
• 01/30/2007 Compliance Evaluation Inspection On-site (Used Oil Generators) (achieved compliance on 03/09/2007)
• 01/19/1999 Compliance Evaluation Inspection On-site (Generators – General) (achieved compliance on 07/06/1999

6. Respondent states that it first notified the DEQ of the environmental conditions that are the subject of this MACO in February, 2009 by written correspondence. Subsequently, on September 2, 2009, a meeting was held at the offices of the DEQ in Oklahoma City, to discuss addressing the contamination through the DEQ VCP and/or Brownfield Programs. Respondent first became aware of the possible contamination in December of 2008. Prior to the execution of this MACO, the DEQ provided assistance to Respondent by informing Respondent of the technical requirements and procedures for participating in the Brownfield Program; and

7. Respondent informs the DEQ that the harm that has resulted or is expected to result from the conditions at the Site is a release, or potential release, of contaminants to soil and groundwater at the Site.

8. The parties agree that it is beneficial to resolve these matters promptly and by agreement and, as to this matter, waive the filing of a petition or other pleading, and Respondent waives the right to a hearing.

CONCLUSIONS OF LAW

9. The DEQ has regulatory jurisdiction and authority in this matter, and Respondent is subject to the jurisdiction and authority of the DEQ under Oklahoma law, including but not limited to the Oklahoma Environmental Quality Act, 27A O.S. §1-1-101 *et seq.* and the Oklahoma Environmental Quality Code, specifically 27A Okla. Statutes (O.S.) §§ 2-6-105, 2 –7– 123, 2-10-301(H), and 2-15-101 *et seq.* and applicable rules.

10. The Parties are authorized by 75 O.S. §309(E) and 27A O.S. §2-3-506(B) to resolve this matter by agreement.

11. If the Respondent remediates the Site to risk based standards, Respondent acknowledges that the DEQ shall file a Notice of Remediation in the land records of the county in which the property is located unless said property is remediated to unrestricted use. Respondent shall grant an easement to the DEQ for ingress and egress to assure ongoing protection of the Remedy as provided in the deed notice.

12. The DEQ acknowledges that Respondent has submitted various technical documents for review and comment, including but not limited to the following: Limited Phase I and II Environmental Site Assessments prepared by A&M Engineering Services, Inc.

13. Respondent does not admit any Conclusions of Law.

ORDER

14. Within thirty (30) days of effective date of this MACO, Respondent will submit to the DEQ a Work Plan to characterize the Site in conformance with guidance documents recommended by the DEQ including a Quality Assurance Project Plan (QAPP), a Sampling and Analysis Plan (SAP) and a Health and Safety Plan (HSP) for the site.

15. The SAP must contain schedules for completion of each task and shall not be implemented until after approval of the Work Plan by the DEQ. If the DEQ determines that the results of the SAP indicate the need for additional tasks to be performed by Respondent to properly characterize the Site, Respondent and DEQ shall negotiate an amendment to the SAP that is acceptable to the parties.

16. If either Party believes work needs to be performed prior to completion of the Site Characterization, Respondent or the DEQ may request the performance of a Removal Action (RA) or an Interim Remedial Measure (IRM).

17. Within thirty (30) days after completing the tasks outlined in the Work Plan, Respondent shall submit a Site Characterization Report to the DEQ in accordance with guidance documents provided by the DEQ at its website,

http://www.deq.state.ok.us/ lpdnew/ FactSheets/SiteCharacterizationTemplate.

18. Within thirty (30) days from the effective date of this Order, Respondent shall submit a valid check for $5,000.00. The check shall be mailed to: Comptroller, Administrative Services Division, Department of Environmental Quality, P.O. Box 2036, Oklahoma City, Oklahoma, 73101-2036 and shall reference the case number and case name. The DEQ will establish an account for Respondent with the funds referenced herein above, from which the DEQ will draw to pay its costs necessary for oversight of tasks set forth in this MACO and, if a deed notice is filed by the DEQ, to pay the filing fee pursuant to Oklahoma law. The DEQ oversight costs will include all reasonably-incurred direct costs of the DEQ's oversight arrangement for the investigation including, but not limited to, time and travel costs of DEQ personnel, contractor costs, and the costs of collecting and analyzing split samples. The salary and fringe benefit component of

oversight costs will be charged as direct costs. Indirect costs for on-Site and off-Site oversight will be charged at the current federal percentage rate until a new indirect cost rate is negotiated with the United States Environmental Protection Agency, at which time the negotiated rate will be used. The DEQ will provide a written quarterly accounting to Respondent documenting the receipt and disbursement of the funds referenced herein above. When and if the balance of Respondent's account falls below $500.00, the DEQ will notify Respondent in writing, and Respondent will submit a check for a sum sufficient to bring the account balance back to $5,000.00. Respondent will have the right to audit any accounting submitted by the DEQ at Respondent's expense. The DEQ will promptly credit any overcharges to Respondent's account. Upon completion of the tasks set forth in this MACO the DEQ will promptly return any funds remaining in Respondent's account to Respondent.

19. Respondent must also include a description of the monitoring which is to occur after issuance of the Certificate of Completion or Certificate of No Action Necessary and a summary of a title search document.

20. With the exception of DEQ approved RAs or IRMs, a Consent Order for Remediation will be negotiated and signed by the DEQ and Respondent before remedial work is begun at the Site.

GENERAL PROVISIONS

21. Upon their approval by the DEQ, any final reports, plans, specifications, schedules and attachments required under this MACO are incorporated into it and enforceable under it. Failure of Respondent to respond within a reasonable time to any

errors, deficiencies or other regulatory requirements identified by the DEQ is a violation of this MACO.

22. No informal advice, guidance, suggestions or comments by employees of the DEQ regarding reports, plans, specifications, schedules, and other writings relieve or modify Respondent's obligation to obtain written approval by the DEQ, when required by this MACO.

23. Respondent agrees to allow agents of the DEQ entry onto the site at reasonable times and without advance notice, for the purposes of inspecting, sampling, testing, records review and other authorized activities to assess compliance with this MACO. If Respondent is required to sample or test, Respondent agrees to give the DEQ reasonable notice of the sampling or testing date and time and allow the DEQ to observe and/or split-sample.

24. Nothing in this MACO relieves Respondent of its obligation to comply with all applicable federal, state and local statutes, rules and ordinances.

25. This MACO is enforceable as a final order of the Executive Director of the DEQ. The DEQ will retain jurisdiction of this matter for the purposes of interpreting, implementing and enforcing the terms and conditions of this MACO and for the purpose of resolving disputes.

26. Nothing in this MACO limits the DEQ's right to take enforcement action for violations discovered or occurring after the effective date of this MACO.

27. Respondent and the DEQ agree that the provisions of this MACO should be considered severable, and should a court of competent jurisdiction find any provisions to be

inconsistent with state or federal law and therefore unenforceable, the remaining provisions will remain in full force and effect.

28. The provisions of this MACO apply to and are binding upon Respondent and their officers, directors, employees, agents, successors and assigns. No change in the ownership or corporate status of Respondent will alter Respondent's responsibilities under this MACO.

29. Neither the fact that Respondent and the DEQ have entered into this MACO, nor the Findings of Fact and Conclusions of Law, shall be used for any purpose in this or any other proceeding except the enforcement by the parties of this MACO. As to others who are not parties, nothing contained in this MACO is an admission by Respondent of the Findings of Fact or Conclusions of Law, and entry into this MACO is not an admission by Respondent of liability for conditions at or near the facility or a waiver of any right, cause of action or defense Respondent otherwise has.

30. Respondent and the DEQ agree that the venue of any action in district court for the purposes of interpretation, implementation and enforcement of this MACO will be Oklahoma County, Oklahoma.

31. The requirements of this MACO will be considered satisfied and this MACO terminated when Respondent receives written notice from the DEQ that Respondent has demonstrated that all the terms of the MACO have been completed to the satisfaction of the DEQ.

32. The parties may amend this MACO by mutual consent. Such amendments must be in writing and the effective date of the amendments will be the date on which they are signed by the DEQ.

33. Unless otherwise specified, any report, notice or other communication required under this MACO must be in writing and must be sent by mail or by electronic submission or both to:

Legal:	Andrew T. Harrison, Esq. SNEED LANG HERROLD, P.C. 1700 Williams Center Tower I One West Third Street Tulsa, Oklahoma 74103	Technical:	A&M Engineering Services 10010 East 16th Street Tulsa, Oklahoma 74136

The designated persons may be changed by letter to the signatories and incorporated herein by reference without amending this Order.

34. The individuals signing this MACO certify that they are authorized to sign it and to legally bind the parties they represent.

35. This MACO becomes effective on the date of the signature below of the Executive Director of the DEQ.

Date: October 30, 2009

LIMCO AIREPAIR, INC.
Dan Kraft, Chief Operating Officer

Date: 11.20-09

OKLAHOMA DEPARTMENT
OF ENVIRONMENTAL QUALITY
Steven A. Thompson, Executive Director

TO: **DEBBIE RAY, LEGAL**

FROM: Barbara Rauch , LPD Enforcement

DATE: November 3, 2009

RP Information

RP's Name: Limco Airepair

Facility #: Click here to enter text.

Contact Name (if different from RP): Dan Craft, CEO

Permit/License #: Click here to enter text.

Business Name (if different from RP): Click here to enter text.

County: Tulsa

Street Address: 5304 South Lawton

City, State Zip: Tulsa, Oklahoma

Case Information

NOV #: Click here to enter text. Case #: 09-303 Related Case #: Click here to enter text.

Complaint #: Click here to enter text. Complaint Type: ☐ Anonymous ☐ Confidential ☐ Unrestricted

LPD Contact Person: Ray Roberts

DEQ Attorney: Rauch

Cash Penalty Assessed: Click here to enter text.

Payment Due Date: Click here to enter text.

Value of EP Assessed: Click here to enter text.

Complete Date: Click here to enter text.

PROGRAM(S) (check one)

- ☐ Brownfields
- ☐ Hazardous Waste
- ☐ Land Reclamation Project
- ☐ Radiation
- ☐ Solid Waste
- ☐ Superfund
- ☐ Tires
- ☐ Underground Injection Control
- ☒ Voluntary Clean-Up
- ☐ Other

PROBLEM(S) (check all that apply)

- ☐ Biomedical Waste Processing
- ☐ C&D Landfill Operations
- ☐ Class I Well Operations
- ☐ Class III Well Operations
- ☐ Class V Well Operations
- ☐ HW Generator Requirements
- ☐ HW Spill Notification/Remediation Requirements
- ☐ HW Tank & Container Recycler Requirements
- ☐ HW Transfer Facility Requirements
- ☐ HW Transporter Requirements
- ☐ HW TSD Facility Operational Requirements
- ☐ Inappropriate Land Use
- ☐ Injection Well Construction Requirements
- ☐ Land Application of Sludge
- ☐ Land Reclamation
- ☐ MSWLF Operations
- ☐ NHIW Generator Requirements
- ☐ NHIW Landfill Operations
- ☐ Non-Payment of Fee(s)
- ☐ Operating w/o Permit or Authorization
- ☐ Operating w/o Required License
- ☐ Operational Violation(s)
- ☐ Radiation Exposure Violation(s)
- ☐ Radiation Protection Requirements
- ☐ SW Composting Operations
- ☐ Unpermitted Treatment/Storage/Disposal of HW
- ☐ Unpermitted Underground Injection
- ☐ Waste Tire Processing
- ☒ Other

American Environmental Landfill, Inc.
Leading the Industry in Environmental Compliance

American Environmental Landfill, Inc.

"Leading the Industry in Environmental Compliance"

(MUST BE FILLED OUT COMPLETELY)

For more information, please call American Environmental Landfill, Inc. at (918)245-7786

A. GENERATOR INFORMATION

1. Generator Name: Limco Airepair
2. Site Location: 5304 S Lawton Ave
3. City: Tulsa
   State: OK Zip Code: 74105
4. Phone: 918-261-1417
5. Fax:
6. State Waste Code:

B. CUSTOMER BILLING INFORMATION

1. Billed to Name: Rineco Environmental Servic
2. Address: 1002 Vulcan Road, Suite 201
3. City: Benton
   State: AR Zip Code: 72015
4. Phone: 800-377-4692
5. Fax: NA
6. Contact: Tim Taylor
7. Title: General Manager

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Floor Sump Sludge Waste
2. Detailed Decription of Process Generating Waste and Material Description: Cleaning out floor sumps. Sumps used to capture water and run off from power washing aerospace equipment and machine parts

3. Industrial Generator ☑ Yes ☐ No
4. Municipal Generator ☐ Yes ☑ No
5. Physical State at 70° ☐ Solid ☑ Semisold ☐ Liquid ☐ Powder ☐ Combination
6. Odor ☑ Yes ☐ No Describe: Mild
7. Color: Brown
8. pH Range: Nuetral
9. Flash Point: >200
10. Reactive ☐ Yes ☑ No With:
11. Free Liquid ☑ Yes ☐ No
12. Water content % by volume: 25%
13. Viscosity:
14. Is the analytical attached dervied from testing a representative sample IAW 40 CFR 261.35? ☑ Yes ☐ No
15. Does the waste contain radioactive or U.S.D.O.T. hazardous waste materials? ☐ Yes ☑ No

D. SUPPLEMENTAL INFORMATION

☐ None ☐ MSDS ☑ Analytical Data ☐ Process Knowledge Number of pages attached: 19

E. SHIPPING INFORMATION

1. Packaging ☑ Bulk Liquid ☐ Bulk Solid ☐ Drum ☐ Other _____ Shipping Frequency: One Time
2. Estimated Volume: 1000 ☑ Gallons ☐ Yards ☐ Drums Other:

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste as defined by the USEPA in 40 CFR 261, nor does it contain PCBs regulated under TSCA 40 CFR 761.

I, [signature] am employed by Limco Airepair and am authorized to sign this request for Limco Airepair (Company Name) [signature] (Signature) 12-23-15 (Date)

LANDFILL USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:
Date: 12-24-15 ☑ Approved ☐ Rejected
Additional Information: Samples to Pass CAFT
Current WDA on file ☑ Yes ☐ No
Job # MN379LIMA1

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

NHIW CERTIFICATION

Please read instructions prior to completing this form.

Generator Name: Limco Airepair

Mailing Address: 5304 S Lawton Ave **City** Tulsa **State** OK **Zip** 74105

Point of Generation Address: same as above **City** _____ **State** ____ **Zip** _____

Generator Contact: Taylor Fuller **Title** _____ **Telephone** 918-261-1417

DETAILED WASTE DESCRIPTION

Waste Name: Floor Sump Sludge

If waste was generated out-of-state, is it classified as hazardous in the state of origin? [] Yes [] No [x] NA- Okla. waste

Approximate amount of waste to be disposed: 5

Disposal frequency: [x] Tons [] Pounds [] One-time [] Weekly [] Solid [] Liquid [] Cubic yards [] Drum [] Monthly [] Annually [x] Sludge [] Combination [] Other _____

Physical characteristics:

Method used to determine waste is non-hazardous: [x] Analysis [] Generator knowledge [] Both

Process generating waste (be specific and use additional sheets if necessary):
Cleaning out floor sumps. Sumps are used to capture water and run off from power washing aerospace equipment and machine parts

DESIGNATED RECEIVING LANDFILL

Name: American Environmental Landfill **Permit #:** 3557021

GENERATOR CERTIFICATION

I understand this form must be signed by the original waste generator or other persons authorized by 27A O.S. §2-10-501(H).

To the best of my knowledge, I certify:

- **The information contained herein is accurate, complete, and representative of the waste to be disposed;**
- **The waste identified above is not a characteristically hazardous waste as identified by 40 CFR 261, Subpart C, is not a listed hazardous waste as identified by 40 CFR 261, Subpart D or contaminated with a listed hazardous waste, and is not otherwise identified as a hazardous waste by the Department of Environmental Quality; and**
- **This waste will be managed in accordance with all applicable statutes and rules of the Department of Environmental Quality.**

Bill Williams
Generator Signature

Bill Williams — Pom — 12-22-15
Printed name **Title** **Date**

Adopted June 2003 **DEQ Form # 515-860**

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December 10, 2015

Bill Williams
Limco Airepair
5304 S. Lawton Ave.
Tulsa, OK 74105

RE: Project: FAC-SEMI
Pace Project No.: 60208597

Dear Bill Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Mannz
richard.mannz@pacelabs.com
PM Lab Management

Enclosures

cc: Mindi Farmer, Limco Airepair
Ed Liston, Paradigm
Greg Steele, Paradigm

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CERTIFICATIONS

Project: FAC-SEMI
Pace Project No.: 60208597

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: FAC-SEMI
Pace Project No.: 60208597

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60208597001	FAC-SEMI	Water	12/02/15 11:35	12/03/15 09:05
60208597002	FAC-SEMI	Water	12/02/15 11:25	12/03/15 09:05

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SAMPLE ANALYTE COUNT

Project: FAC-SEMI
Pace Project No.: 60208597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60208597001	FAC-SEMI	SM 4500-H+B	LDL	1	PASI-K
		EPA 1664A	ESM	1	PASI-K
		SM 4500-CN-E	OL	1	PASI-K
60208597002	FAC-SEMI	EPA 200.7	NDJ	9	PASI-K
		EPA 245.1	ZBM	1	PASI-K
		SM 2540D	LDB	1	PASI-K
		SM 5210B	LJS	1	PASI-K
		EPA 410.4	CRS	1	PASI-K

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ANALYTICAL RESULTS

Project: FAC-SEMI
Pace Project No.: 60208597

Sample: FAC-SEMI **Lab ID: 60208597001** Collected: 12/02/15 11:35 Received: 12/03/15 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field pH, Electrometric	Analytical Method: SM 4500-H+B							
pH	**7.7**	Std. Units	0.10	1		12/02/15 11:35		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	ND	mg/L	5.0	1		12/09/15 13:25		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		12/05/15 12:06	57-12-5	

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ANALYTICAL RESULTS

Project: FAC-SEMI
Pace Project No.: 60208597

Sample: FAC-SEMI **Lab ID: 60208597002** Collected: 12/02/15 11:25 Received: 12/03/15 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Arsenic	ND	mg/L	0.010	1	12/04/15 11:15	12/04/15 17:20	7440-38-2	
Cadmium	**0.0070**	mg/L	0.0050	1	12/04/15 11:15	12/04/15 17:20	7440-43-9	
Chromium	**1.7**	mg/L	0.0050	1	12/04/15 11:15	12/04/15 17:20	7440-47-3	
Copper	**1.8**	mg/L	0.010	1	12/04/15 11:15	12/04/15 17:20	7440-50-8	
Lead	ND	mg/L	0.0050	1	12/04/15 11:15	12/04/15 17:20	7439-92-1	
Molybdenum	ND	mg/L	0.020	1	12/04/15 11:15	12/04/15 17:20	7439-98-7	
Nickel	**0.16**	mg/L	0.0050	1	12/04/15 11:15	12/04/15 17:20	7440-02-0	
Silver	**0.025**	mg/L	0.0070	1	12/04/15 11:15	12/04/15 17:20	7440-22-4	
Zinc	ND	mg/L	0.050	1	12/04/15 11:15	12/04/15 17:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.00024**	mg/L	0.00020	1	12/04/15 09:20	12/04/15 15:58	7439-97-6	
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**76.7**	mg/L	5.0	1		12/04/15 12:24		
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**60.8**	mg/L	2.0	1	12/04/15 10:57	12/09/15 13:58		
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**129**	mg/L	10.0	1		12/08/15 14:39		

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: MERP/10159
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60208597002

METHOD BLANK: 1678667 Matrix: Water
Associated Lab Samples: 60208597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	12/04/15 15:29	

LABORATORY CONTROL SAMPLE: 1678668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0046	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1678669 1678670

Parameter	Units	60208607002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.005	.005	0.0044	0.0044	87	87	70-130	1	20	

MATRIX SPIKE SAMPLE: 1678671

Parameter	Units	60208473001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	ND	.005	0.0046	92	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: MPRP/34139
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60208597002

METHOD BLANK: 1678869 Matrix: Water
Associated Lab Samples: 60208597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.010	12/04/15 15:52	
Cadmium	mg/L	ND	0.0050	12/04/15 15:52	
Chromium	mg/L	ND	0.0050	12/04/15 15:52	
Copper	mg/L	ND	0.010	12/04/15 15:52	
Lead	mg/L	ND	0.0050	12/04/15 15:52	
Molybdenum	mg/L	ND	0.020	12/04/15 15:52	
Nickel	mg/L	ND	0.0050	12/04/15 15:52	
Silver	mg/L	ND	0.0070	12/04/15 15:52	
Zinc	mg/L	ND	0.050	12/04/15 15:52	

LABORATORY CONTROL SAMPLE: 1678870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.97	97	85-115	
Cadmium	mg/L	1	0.99	99	85-115	
Chromium	mg/L	1	1.0	100	85-115	
Copper	mg/L	1	1.1	106	85-115	
Lead	mg/L	1	1.0	100	85-115	
Molybdenum	mg/L	1	1.1	110	85-115	
Nickel	mg/L	1	1.0	101	85-115	
Silver	mg/L	.5	0.50	99	85-115	
Zinc	mg/L	1	0.92	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1678871 1678872

Parameter	Units	60208697001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	13.8 ug/L	1	1	1.2	1.1	115	111	70-130	4	20	
Cadmium	mg/L	ND	1	1	1.0	1.0	105	101	70-130	4	20	
Chromium	mg/L	108 ug/L	1	1	1.1	1.1	99	95	70-130	4	20	
Copper	mg/L	471 ug/L	1	1	1.6	1.5	114	107	70-130	5	20	
Lead	mg/L	19.6 ug/L	1	1	0.90	0.86	88	84	70-130	4	20	
Molybdenum	mg/L	2870 ug/L	1	1	4.0	3.8	113	97	70-130	4	20	
Nickel	mg/L	664 ug/L	1	1	1.6	1.5	94	87	70-130	4	20	
Silver	mg/L	ND	.5	.5	0.56	0.53	111	106	70-130	4	20	
Zinc	mg/L	396 ug/L	1	1	1.3	1.3	93	88	70-130	4	20	

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: TULS/1844
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: Field pH, Electrometric
Associated Lab Samples: 60208597001

SAMPLE DUPLICATE: 1678895

Parameter	Units	60208597001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.7	7.7	0	5	

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: WET/58849
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60208597001

METHOD BLANK: 1680033 Matrix: Water
Associated Lab Samples: 60208597001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	12/09/15 13:22	

LABORATORY CONTROL SAMPLE: 1680034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.1	96	64-132	

MATRIX SPIKE SAMPLE: 1680035

Parameter	Units	60208486001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.4	17.8	83	64-132	

SAMPLE DUPLICATE: 1680036

Parameter	Units	60208543001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	<5.0	ND		34	

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: WET/58786
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60208597002

METHOD BLANK: 1678343
Matrix: Water
Associated Lab Samples: 60208597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	12/04/15 12:15	

SAMPLE DUPLICATE: 1678344

Parameter	Units	60208574001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	8.0	12	10	D6

SAMPLE DUPLICATE: 1678345

Parameter	Units	60208584001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	16.0	17.0	6	10	

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: WET/58802
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60208597002

METHOD BLANK: 1678840 Matrix: Water
Associated Lab Samples: 60208597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	12/09/15 13:28	

LABORATORY CONTROL SAMPLE: 1678841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	199	100	85-115	

SAMPLE DUPLICATE: 1678842

Parameter	Units	60208609003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: WETA/37234
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 60208597002

METHOD BLANK: 1679741
Matrix: Water
Associated Lab Samples: 60208597002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	12/08/15 14:36	

LABORATORY CONTROL SAMPLE: 1679742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.0	96	90-110	

MATRIX SPIKE SAMPLE: 1679743

Parameter	Units	60208573001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	323	250	553	92	90-110	

MATRIX SPIKE SAMPLE: 1679745

Parameter	Units	60208508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	4000	2500	6410	97	90-110	

SAMPLE DUPLICATE: 1679744

Parameter	Units	60208573003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	11100	10700	3	25	

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QUALITY CONTROL DATA

Project: FAC-SEMI
Pace Project No.: 60208597

QC Batch: WETA/37211
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60208597001

METHOD BLANK: 1679054
Matrix: Water
Associated Lab Samples: 60208597001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	12/05/15 11:56	

LABORATORY CONTROL SAMPLE: 1679055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.098	98	69-126	

MATRIX SPIKE SAMPLE: 1679056

Parameter	Units	60208549002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.0049	.1	0.047	42	41-136	

SAMPLE DUPLICATE: 1679057

Parameter	Units	60208550001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	<0.0040	.0018J		26	

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QUALIFIERS

Project: FAC-SEMI
Pace Project No.: 60208597

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FAC-SEMI
Pace Project No.: 60208597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60208597002	FAC-SEMI	EPA 200.7	MPRP/34139	EPA 200.7	ICP/25083
60208597002	FAC-SEMI	EPA 245.1	MERP/10159	EPA 245.1	MERC/10108
60208597001	FAC-SEMI	SM 4500-H+B	TULS/1844		
60208597001	FAC-SEMI	EPA 1664A	WET/58850		
60208597001	FAC-SEMI	EPA 1664A	WET/58849		
60208597002	FAC-SEMI	SM 2540D	WET/58786		
60208597002	FAC-SEMI	SM 5210B	WET/58802	SM 5210B	WET/58895
60208597002	FAC-SEMI	EPA 410.4	WETA/37234		
60208597001	FAC-SEMI	SM 4500-CN-E	WETA/37211		

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Sample Condition Upon Receipt

WO#: 60208597

60208597

Client Name: Linco

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 6228 5858 7931 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☒ Other ☐

Thermometer Used: CF +0.6 T-239 / CF +0.6 T-262 **Type of Ice:** (Wet) Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JS 12/3

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WT		13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☒Yes ☐No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☐No ☒N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [signature] Date: 12/3/2015

9, 30June2015

Limco Airepair for the

CITY OF TULSA
CHAIN OF CUSTODY

PL 208597

Facility Name:	Limco Airepair
Facility Address:	5304 South Lawton Ave., Tulsa, OK
Sampling Location:	FAC-~3ft E of Blsg line E of the wastewater treatment room
Sampling Equipment:	Isco
Collected By:	Leila Ledford
Type: G = Grab C = Composite	Container: P = Plastic, G = Glass

Preservative
1 - HNO_3
2 - Cool, ≤6° C
3 - HCl
4 - H_2SO_4
5 - NaOH
6 - _____

Sample ID	Sample Volume	Field pH Results			Type G/C	Cont. P/G	Start Date/Time	Finish Date/Time	Pres #	Requested Analysis: Field pH (done on site,no container)	TPH SGT-HEM	Cyanide	BOD/TSS	COD	Metals(As, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Ag, Zn)		
		pH	Time	Analyst													
FAC-Semi	~	7.74	1137	[illegible]	G	G		12-2-15 1135	~	X							
FAC-Semi	2x1000mL				G	G		12-2-15 1135	2/3		X		(2)HCl				
FAC-Semi	250 mL				G	P		12-2-15 1135	2/5			X	[illegible]				
FAC-Semi	1000 mL				C	P	12-1-15 1125	12-2-15 1135	2			[illegible]	X				
FAC-Semi	250 mL				C	P	12-1-15 1125	12-2-15 1125	2/4			[illegible]		X			
FAC-Semi	250 mL				C	P	12-1-15 1125	12-2-15 1135	2/1			[illegible]			X		

Relinquished by: (Signature) FedEx 6028 5858 7931 Date/Time: 12-2-15 1730

Relinquished By: (Signature) Date/Time:

Received by: (Signature) Date/Time:

Received by Laboratory: (Signature) Date/Time: 12/5 0905

CERTIFICATION: To be completed by company official.

I hereby certify that the above sampling occurred during a period such that the sample(s) is/are representative of a typical operating day discharge for the above named facility.

Signature: [signature] Title: Dock

Laboratory Comments: BID # 11OK-058;

FedEx

December 3,2015

Dear Customer:

The following is the proof-of-delivery for tracking number 622858587931.

Delivery Information:

Status:	Delivered	Delivered to:	Shipping/Receiving
Signed for by:	R.WITZ	Delivery location:	LENEXA, KS
Service type:	FedEx Standard Overnight	Delivery date:	Dec 3, 2015 08:57
Special Handling:	Deliver Weekday		

Signature image is available. In order to view image and detailed information, the shipper or payor account number of the shipment must be provided.

Shipping Information:

Tracking number:	622858587931	Ship date:	Dec 2, 2015
		Weight:	73.0 lbs/33.1 kg

Recipient:	Shipper:
LENEXA, KS US	Tulsa, OK US
Reference	Samples

Thank you for choosing FedEx.

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December 21, 2015

Taylor Fuller
Rineco Environmental
59/1 N. Hwy 167
Catoosa, OK 74015

RE: Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Dear Taylor Fuller:
Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Mannz
richard.mannz@pacelabs.com
PM Lab Management

Enclosures

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CERTIFICATIONS

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587

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SAMPLE SUMMARY

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60209946001	LA-1	Water	12/18/15 10:45	12/19/15 09:25

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SAMPLE ANALYTE COUNT

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60209946001	**LA-1**	EPA 5030B/8260	PGH	69	PASI-K
		EPA 1010	LDB	1	PASI-K

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ANALYTICAL RESULTS

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Sample: LA-1 **Lab ID: 60209946001** Collected: 12/18/15 10:45 Received: 12/19/15 09:25 Matrix: Water

Comments: • Sample container did not meet EPA or method requirements.

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**1510**	ug/L	100		10		12/21/15 09:10	67-64-1	
Benzene	ND	ug/L	10.0		10		12/21/15 09:10	71-43-2	
Bromobenzene	ND	ug/L	10.0		10		12/21/15 09:10	108-86-1	
Bromochloromethane	ND	ug/L	10.0		10		12/21/15 09:10	74-97-5	
Bromodichloromethane	ND	ug/L	10.0		10		12/21/15 09:10	75-27-4	
Bromoform	ND	ug/L	10.0		10		12/21/15 09:10	75-25-2	
Bromomethane	ND	ug/L	50.0		10		12/21/15 09:10	74-83-9	
2-Butanone (MEK)	**1080**	ug/L	100		10		12/21/15 09:10	78-93-3	
n-Butylbenzene	ND	ug/L	10.0		10		12/21/15 09:10	104-51-8	
sec-Butylbenzene	ND	ug/L	10.0		10		12/21/15 09:10	135-98-8	
tert-Butylbenzene	ND	ug/L	10.0		10		12/21/15 09:10	98-06-6	
Carbon disulfide	ND	ug/L	50.0		10		12/21/15 09:10	75-15-0	
Carbon tetrachloride	ND	ug/L	10.0		10		12/21/15 09:10	56-23-5	
Chlorobenzene	ND	ug/L	10.0		10		12/21/15 09:10	108-90-7	
Chloroethane	ND	ug/L	10.0		10		12/21/15 09:10	75-00-3	
Chloroform	**43.6**	ug/L	10.0		10		12/21/15 09:10	67-66-3	
Chloromethane	ND	ug/L	10.0		10		12/21/15 09:10	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0		10		12/21/15 09:10	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0		10		12/21/15 09:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0		10		12/21/15 09:10	96-12-8	
Dibromochloromethane	ND	ug/L	10.0		10		12/21/15 09:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0		10		12/21/15 09:10	106-93-4	
Dibromomethane	ND	ug/L	10.0		10		12/21/15 09:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0		10		12/21/15 09:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0		10		12/21/15 09:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0		10		12/21/15 09:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0		10		12/21/15 09:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0		10		12/21/15 09:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0		10		12/21/15 09:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	10.0		10		12/21/15 09:10	540-59-0	
1,1-Dichloroethene	ND	ug/L	10.0		10		12/21/15 09:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0		10		12/21/15 09:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0		10		12/21/15 09:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0		10		12/21/15 09:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0		10		12/21/15 09:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0		10		12/21/15 09:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0		10		12/21/15 09:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0		10		12/21/15 09:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0		10		12/21/15 09:10	10061-02-6	
Ethylbenzene	ND	ug/L	10.0		10		12/21/15 09:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0		10		12/21/15 09:10	87-68-3	
2-Hexanone	ND	ug/L	100		10		12/21/15 09:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	10.0		10		12/21/15 09:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	10.0		10		12/21/15 09:10	99-87-6	
Methylene chloride	ND	ug/L	10.0		10		12/21/15 09:10	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Sample: LA-1 **Lab ID: 60209946001** Collected: 12/18/15 10:45 Received: 12/19/15 09:25 Matrix: Water

Comments: • Sample container did not meet EPA or method requirements.

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100		10		12/21/15 09:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0		10		12/21/15 09:10	1634-04-4	
Naphthalene	ND	ug/L	100		10		12/21/15 09:10	91-20-3	
n-Propylbenzene	**13.1**	ug/L	10.0		10		12/21/15 09:10	103-65-1	
Styrene	ND	ug/L	10.0		10		12/21/15 09:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0		10		12/21/15 09:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0		10		12/21/15 09:10	79-34-5	
Tetrachloroethene	ND	ug/L	10.0		10		12/21/15 09:10	127-18-4	
Toluene	ND	ug/L	10.0		10		12/21/15 09:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0		10		12/21/15 09:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0		10		12/21/15 09:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0		10		12/21/15 09:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0		10		12/21/15 09:10	79-00-5	
Trichloroethene	**12.2**	ug/L	10.0		10		12/21/15 09:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0		10		12/21/15 09:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0		10		12/21/15 09:10	96-18-4	
1,2,4-Trimethylbenzene	**91.7**	ug/L	10.0		10		12/21/15 09:10	95-63-6	
1,3,5-Trimethylbenzene	**30.1**	ug/L	10.0		10		12/21/15 09:10	108-67-8	
Vinyl chloride	ND	ug/L	10.0		10		12/21/15 09:10	75-01-4	
Xylene (Total)	ND	ug/L	30.0		10		12/21/15 09:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	116	%	80-120		10		12/21/15 09:10	460-00-4	HS
1,2-Dichloroethane-d4 (S)	105	%	80-120		10		12/21/15 09:10	17060-07-0	
Toluene-d8 (S)	100	%	80-120		10		12/21/15 09:10	2037-26-5	
Preservation pH	**9.0**		0.10		10		12/21/15 09:10		pH
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>210**	deg F	78.0		1		12/21/15 09:10		

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QUALITY CONTROL DATA

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

QC Batch: MSV/73426
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60209946001

METHOD BLANK: 1688167
Matrix: Water
Associated Lab Samples: 60209946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/21/15 08:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/21/15 08:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/21/15 08:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/21/15 08:56	
1,1-Dichloroethane	ug/L	ND	1.0	12/21/15 08:56	
1,1-Dichloroethene	ug/L	ND	1.0	12/21/15 08:56	
1,1-Dichloropropene	ug/L	ND	1.0	12/21/15 08:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/21/15 08:56	
1,2,3-Trichloropropane	ug/L	ND	2.5	12/21/15 08:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/21/15 08:56	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	12/21/15 08:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	12/21/15 08:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/21/15 08:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/21/15 08:56	
1,2-Dichloroethane	ug/L	ND	1.0	12/21/15 08:56	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	12/21/15 08:56	
1,2-Dichloropropane	ug/L	ND	1.0	12/21/15 08:56	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/21/15 08:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/21/15 08:56	
1,3-Dichloropropane	ug/L	ND	1.0	12/21/15 08:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/21/15 08:56	
2,2-Dichloropropane	ug/L	ND	1.0	12/21/15 08:56	
2-Butanone (MEK)	ug/L	ND	10.0	12/21/15 08:56	
2-Chlorotoluene	ug/L	ND	1.0	12/21/15 08:56	
2-Hexanone	ug/L	ND	10.0	12/21/15 08:56	
4-Chlorotoluene	ug/L	ND	1.0	12/21/15 08:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/21/15 08:56	
Acetone	ug/L	ND	10.0	12/21/15 08:56	
Benzene	ug/L	ND	1.0	12/21/15 08:56	
Bromobenzene	ug/L	ND	1.0	12/21/15 08:56	
Bromochloromethane	ug/L	ND	1.0	12/21/15 08:56	
Bromodichloromethane	ug/L	ND	1.0	12/21/15 08:56	
Bromoform	ug/L	ND	1.0	12/21/15 08:56	
Bromomethane	ug/L	ND	5.0	12/21/15 08:56	
Carbon disulfide	ug/L	ND	5.0	12/21/15 08:56	
Carbon tetrachloride	ug/L	ND	1.0	12/21/15 08:56	
Chlorobenzene	ug/L	ND	1.0	12/21/15 08:56	
Chloroethane	ug/L	ND	1.0	12/21/15 08:56	
Chloroform	ug/L	ND	1.0	12/21/15 08:56	
Chloromethane	ug/L	ND	1.0	12/21/15 08:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/21/15 08:56	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

METHOD BLANK: 1688167 Matrix: Water
Associated Lab Samples: 60209946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/21/15 08:56	
Dibromochloromethane	ug/L	ND	1.0	12/21/15 08:56	
Dibromomethane	ug/L	ND	1.0	12/21/15 08:56	
Dichlorodifluoromethane	ug/L	ND	1.0	12/21/15 08:56	
Ethylbenzene	ug/L	ND	1.0	12/21/15 08:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/21/15 08:56	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/21/15 08:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/21/15 08:56	
Methylene chloride	ug/L	ND	1.0	12/21/15 08:56	
n-Butylbenzene	ug/L	ND	1.0	12/21/15 08:56	
n-Propylbenzene	ug/L	ND	1.0	12/21/15 08:56	
Naphthalene	ug/L	ND	10.0	12/21/15 08:56	
p-Isopropyltoluene	ug/L	ND	1.0	12/21/15 08:56	
sec-Butylbenzene	ug/L	ND	1.0	12/21/15 08:56	
Styrene	ug/L	ND	1.0	12/21/15 08:56	
tert-Butylbenzene	ug/L	ND	1.0	12/21/15 08:56	
Tetrachloroethene	ug/L	ND	1.0	12/21/15 08:56	
Toluene	ug/L	ND	1.0	12/21/15 08:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/21/15 08:56	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/21/15 08:56	
Trichloroethene	ug/L	ND	1.0	12/21/15 08:56	
Trichlorofluoromethane	ug/L	ND	1.0	12/21/15 08:56	
Vinyl chloride	ug/L	ND	1.0	12/21/15 08:56	
Xylene (Total)	ug/L	ND	3.0	12/21/15 08:56	
1,2-Dichloroethane-d4 (S)	%	100	80-120	12/21/15 08:56	
4-Bromofluorobenzene (S)	%	108	80-120	12/21/15 08:56	
Toluene-d8 (S)	%	103	80-120	12/21/15 08:56	

LABORATORY CONTROL SAMPLE: 1688168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	80-122	
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	22.0	110	73-121	
1,1,2-Trichloroethane	ug/L	20	18.7	93	80-120	
1,1-Dichloroethane	ug/L	20	20.1	101	80-120	
1,1-Dichloroethene	ug/L	20	17.4	87	80-120	
1,1-Dichloropropene	ug/L	20	21.9	110	80-120	
1,2,3-Trichlorobenzene	ug/L	20	22.4	112	77-125	
1,2,3-Trichloropropane	ug/L	20	22.2	111	80-120	
1,2,4-Trichlorobenzene	ug/L	20	22.3	112	78-120	
1,2,4-Trimethylbenzene	ug/L	20	20.8	104	80-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.0	105	77-123	
1,2-Dibromoethane (EDB)	ug/L	20	21.4	107	80-122	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

LABORATORY CONTROL SAMPLE: 1688168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	20.9	105	80-120	
1,2-Dichloroethane	ug/L	20	19.7	98	81-120	
1,2-Dichloroethene (Total)	ug/L	40	36.8	92	80-120	
1,2-Dichloropropane	ug/L	20	20.2	101	80-120	
1,3,5-Trimethylbenzene	ug/L	20	20.8	104	80-120	
1,3-Dichlorobenzene	ug/L	20	18.9	94	80-120	
1,3-Dichloropropane	ug/L	20	19.8	99	80-120	
1,4-Dichlorobenzene	ug/L	20	19.0	95	80-120	
2,2-Dichloropropane	ug/L	20	22.8	114	48-139	
2-Butanone (MEK)	ug/L	100	96.5	97	67-122	
2-Chlorotoluene	ug/L	20	20.0	100	80-120	
2-Hexanone	ug/L	100	95.6	96	75-121	
4-Chlorotoluene	ug/L	20	19.8	99	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.3	95	76-120	
Acetone	ug/L	100	96.8	97	72-120	
Benzene	ug/L	20	20.7	103	80-120	
Bromobenzene	ug/L	20	20.1	100	80-120	
Bromochloromethane	ug/L	20	18.7	94	80-120	
Bromodichloromethane	ug/L	20	20.1	100	80-120	
Bromoform	ug/L	20	18.8	94	73-138	
Bromomethane	ug/L	20	27.2	136	38-137	
Carbon disulfide	ug/L	20	19.4	97	71-129	
Carbon tetrachloride	ug/L	20	20.2	101	67-146	
Chlorobenzene	ug/L	20	19.0	95	80-120	
Chloroethane	ug/L	20	19.7	98	76-120	
Chloroform	ug/L	20	19.1	95	80-120	
Chloromethane	ug/L	20	23.4	117	34-165	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	80-120	
cis-1,3-Dichloropropene	ug/L	20	20.3	102	80-120	
Dibromochloromethane	ug/L	20	19.6	98	80-126	
Dibromomethane	ug/L	20	18.8	94	80-122	
Dichlorodifluoromethane	ug/L	20	27.8	139	35-139	
Ethylbenzene	ug/L	20	19.0	95	80-120	
Hexachloro-1,3-butadiene	ug/L	20	19.3	97	68-128	
Isopropylbenzene (Cumene)	ug/L	20	17.6	88	80-136	
Methyl-tert-butyl ether	ug/L	20	20.2	101	74-120	
Methylene chloride	ug/L	20	19.2	96	80-120	
n-Butylbenzene	ug/L	20	20.8	104	79-126	
n-Propylbenzene	ug/L	20	20.0	100	80-120	
Naphthalene	ug/L	20	22.8	114	73-128	
p-Isopropyltoluene	ug/L	20	19.9	99	80-120	
sec-Butylbenzene	ug/L	20	19.8	99	80-120	
Styrene	ug/L	20	18.0	90	80-123	
tert-Butylbenzene	ug/L	20	19.9	99	80-120	
Tetrachloroethene	ug/L	20	19.1	95	80-123	
Toluene	ug/L	20	19.9	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	18.5	93	80-120	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

LABORATORY CONTROL SAMPLE: 1688168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	21.6	108	80-129	
Trichloroethene	ug/L	20	18.1	90	80-120	
Trichlorofluoromethane	ug/L	20	20.6	103	79-120	
Vinyl chloride	ug/L	20	22.0	110	62-125	
Xylene (Total)	ug/L	60	54.1	90	80-120	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			106	80-120	
Toluene-d8 (S)	%			101	80-120	

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REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/73426

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LIMCO AIREPAIR
Pace Project No.: 60209946

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60209946001	**LA-1**	EPA 5030B/8260	MSV/73426		
60209946001	**LA-1**	EPA 1010	WET/59125		

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Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60209946

60209946

Client Name: Rinco

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Other ☐ Client ☐

Tracking #: 6228 5956 8077 Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☒ Other ☐

Thermometer Used: CF +0.8 T-239 / CF +0.7 T-262 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.0

Date and initials of person examining contents: JB 12/19

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☒Yes ☐No ☐N/A	7. Rush
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☐Yes ☒No ☐N/A	Incorrect container for VOC
Pace containers used:	~~☒Yes~~ 12/19 ☒No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WS	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☐Yes ☒No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased):	☐Yes ☐No ☒N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Need by COB Mnday

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Pineco Environmental	Report To: Taylor.Fuller@pineco.com	Attention: Paige Mann
Address: 17308 East Pine St	Copy To:	Company Name: MES
Tulsa, OK 74116		Address: PO Box 729, Benton, AR
Email To: taylor.fuller@pineco.com	Purchase Order No.:	Pace Quote Reference:
Phone: 918-261-1417 Fax:	Project Name: Limco Airepair	Pace Project Manager:
Requested Due Date/TAT: One Day	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER _____

Site Location STATE: OK

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil OL
Wipe WP
Air AR
Tissue TS
Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total VOC Y/N	Sanitability Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	LA-1	WW	C	12/18	10:30	12/18	10:45		1	X									X	X		60209446 OTHR
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Dan Murphy / RES	12/18	1400		12-18-15	1400				
		12-18-15	1600		12/19	0925	4.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dan Murphy
SIGNATURE of SAMPLER: Daniel Murphy DATE Signed (MM/DD/YY): 12/18/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

DEQ
OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

January 3, 2012

Bill Williams
Director of Facilities, Maintenance, and
Environmental Health and Safety
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

RE: Limco Airepair

Dear Mr. Williams:

Our last communication regarding the Limco Airepair site was on July 15, 2011. It was my understanding that site characterization activities were put on hold at that time. I have attached our April 6, 2010 and June 17, 2010 comments on the Site Characterization Work Plan for reference. Please provide an update on the status of the site including any recent sample results or future plans for the site characterization work within 30 days of receipt of this letter.

Sincerely,

Heather Mallory
Environmental Programs Specialist III
DEQ Land Protection Division
Voluntary Cleanup Program

Enclosures

Cc: Abby Lazar, A&M Engineering and Environmental Services, Inc.

FILE COPY

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

April 6, 2010

Dan Kraft, Sr.V.P./COO
Limco Airepair, Inc.
5304 South Lawton Avenue
Tulsa, OK 74107

RE: Limco Airepair Site Characterization Work Plan

Dear Mr. Kraft:

We have reviewed the Site Characterization Work Plan prepared by A & M Engineering and Environmental Services, Inc. and have the following comments. Please update the work plan and resubmit it for our review.

- Subsurface soil should be analyzed for RCRA metals and SVOCs (method 8270) in addition to VOCs.
- Groundwater samples should be analyzed for SVOCs (method 8270) in addition to VOCs and metals.
- Figure 4 shows MW-8 in the legend, but not on the map. Please explain.
- We request a soil sample and groundwater sample immediately south of the flammable drum storage area. We would also like a soil and groundwater sample south or southwest of the Compressor Room. Depending on the results of MW-5 and other wells, additional groundwater delineation may be needed.
- We request a soil sample to be collected in the storm drainage ditch near the S-drum location. The soil sample should be analyzed for SVOCs and metals.
- We would like additional surface soil sampling at the site in areas of exposed soil. We would like to make a site visit to identify areas that need sampling. Possible areas include the debris pile west of the compressor room, south of the debris/empty drum storage area, south of the propane tank/55 gallon diesel drum area, and south of the flammable drum storage.

- Page 5, Task 2: We recommend Photo Ionization Detector (PID) readings be headspace. Please submit a brief SOP for collecting headspace readings. PID readings do not address SVOCs and metals. We request at least one sample from each soil boring.

- Page 6, Task 4 proposes to investigate nearby properties to determine if contamination can be traced off-site. Please provide additional detail.

- Page 7, item 5 indicates site specific cleanup levels will be established. DEQ prefers to see the results of the investigation before we attempt to set site specific cleanup levels. Please see our checklist, copy attached.

- Page 7, Removal Action Design Report – This also would be better discussed after DEQ sees the Site Characterization Report.

- Page 8, Removal Action Plan – This also would be better discussed after DEQ sees the Site Characterization Report.

- Please add EPA Method 8270 (Semi-volatile Organics) under section 3.3 of the sampling analysis plan.

- Please indicate the date that the samples were collected on Tables 1 and 2.

We have the following comments on the QAPP:

Title and Approval Sheet:

- Please provide two original signature pages for the DEQ to sign. One signature page will be retained by the DEQ, the other will be sent back.

A.4 Project/Task Description and Schedule:

- Task 6, Preparation of Site Characterization Report: Specify the location of the project document repository. Specify that all deviations from the Work Plan and/or the QAPP must be documented in the field book and the final report to decision maker(s).

B.2.2.6 Decontamination:

- "Sampling and drilling equipment will be decontaminated utilizing EPA guidelines." Please specify the EPA guidelines that are referenced.

B.2.13 Field Logs:

- The last bullet should be modified to read "Any modifications to or deviation from the site specific work plan *and/or QAPP*."

B.5 Instrument/Equipment Testing, Inspection, and Maintenance & B.6 Instrument/Equipment Calibration and Frequency:

- Both sections indicate that protocols referenced can be found in Appendix G, Appendix G only references the QAPP for the selected laboratory. Please include the instrument testing, inspection, maintenance, calibration, and frequency of the field measurement instruments and equipment that will be used.

B.9 Data Management:

- How will issues in validation and verification be resolved?

Should you have any questions or concerns feel free to call me at (405) 702-5135.

Sincerely,

Heather Mallory

Heather Mallory
Environmental Programs Specialist
Land Protection Division
Voluntary Cleanup Section

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

FILE COPY

June 17, 2010

Bill Williams
Director of Facilities, Maintenance, and
Environmental Health and Safety
Limco Airepair
5304 South Lawton Avenue
Tulsa, OK 74107

RE: Limco Airepair - June 4, 2010 email and updated map

Copies

Dear Mr. Williams:

I appreciate your time on the June 4, 2010 site visit of the Limco Airepair facility. I have reviewed the updated map that A&M Engineering submitted via email on June 4, 2010. My comments are as follows. I have enclosed a copy of the June 4, 2010 email and attachment and an edited map to highlight the comments below.

During the June 4, 2010 site visit several new surface soil sample and monitor well locations were proposed. Each of the new surface soil sample locations are discussed as follows.

1. Please analyze all surface soil samples for VOCs, SVOCs, RCRA metals, and TPH.

2. During the site visit, stained soil was observed near the former debris pile and surface soil sample SS-1 was added to the site characterization work plan.

3. SS-2 was added to capture any contamination that might exist downgradient of the hazardous waste drum storage area. Please move SS-2 to the east as indicated on the attached map.

4. During the site visit stained soil was noticed between the generator pad and the diesel drum storage pad. Please collect a surface soil sample in the area of stained soil. Also, please move the SS-3 sample to the south of the diesel drum storage as shown on the attached map.

5. SS-4 was added to capture runoff and past spills from the flammable drum storage to the storm drainage ditch. The location of this sample is appropriate.

6. Samples SS-5 and SS-6 were added in the storm drainage ditch to determine if contamination exists in the creek from documented past dumping of hazardous waste into the storm drainage ditch. The location of these samples is appropriate.

7. MW-4 was moved to the southwest corner of the compressor room. The proposed location is acceptable.

8. MW-8 was added to determine if the groundwater is contaminated near the flammable drum storage area. We concur with the proposed location.

Additional Comments:

1. Please add a north arrow to the map.

2. A new ditch has been dug where the debris/empty drum storage was formerly housed. Please collect one sample from the north end of the ditch and one sample from the south end of the ditch. Please analyze the samples for VOCs, SVOCs, RCRA metals, and TPH.

3. New gravel has been spread south of the main building between the ditch and the hazardous waste drum storage area. Please collect a soil sample from below the gravel layer south of the loading dock (see attached map). Please analyze the sample for VOCs, SVOCs, RCRA metals, and TPH.

4. During the site visit an abandoned manhole was observed to contain several feet of soil. The manhole is located south of the flammable drum storage area. Please use a hand auger to collect two soil samples one from the top six inches of soil and one from the bottom of the manhole and analyze them for VOCs, SVOCs, RCRA metals, and TPH.

Please submit an updated map and an addendum to the workplan reflecting the above changes for our review.

Please contact me if you have any questions or concerns at (405) 702-5135.

Sincerely,

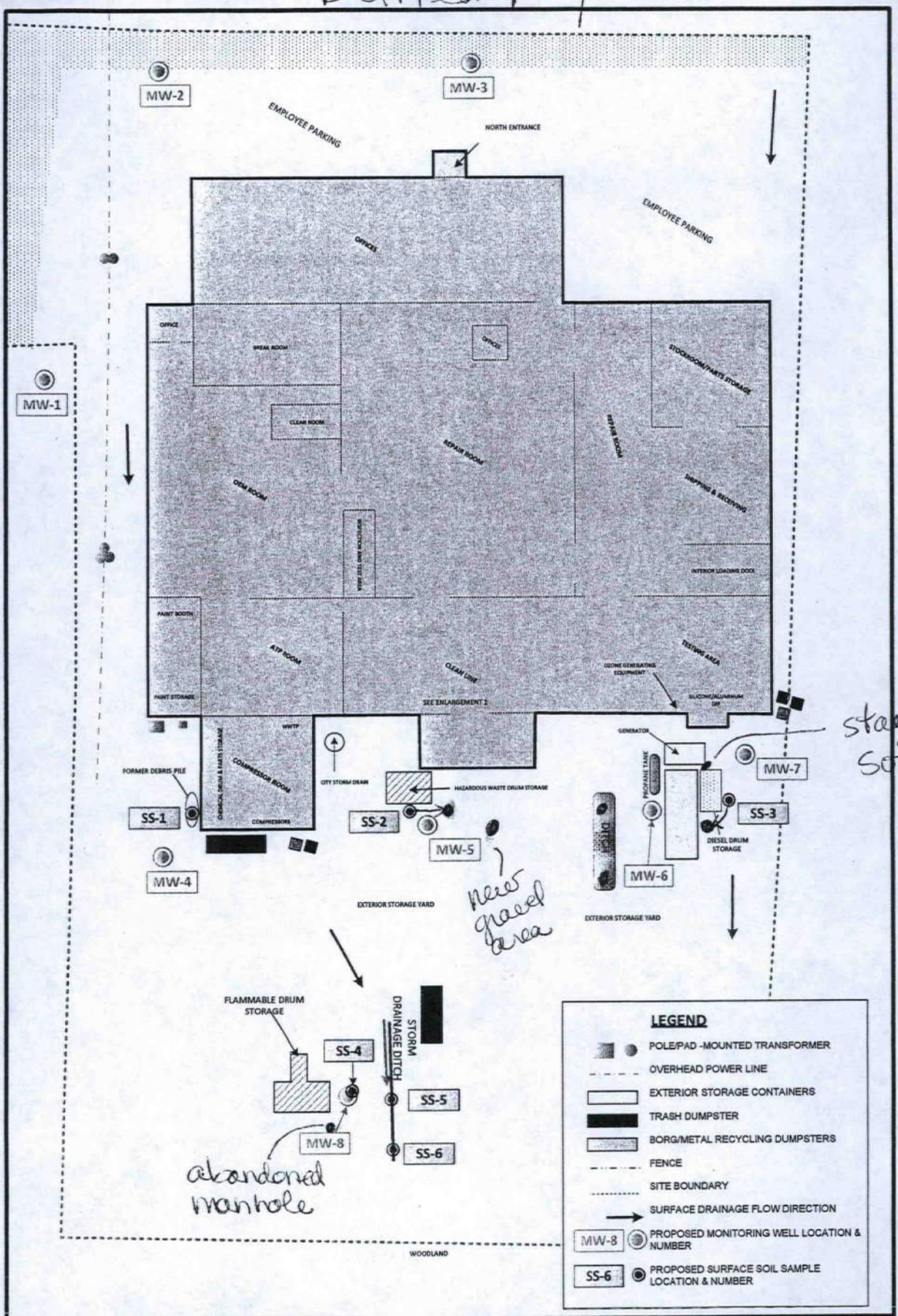
Heather Mallory

Heather Mallory
Environmental Programs Specialist III
DEQ Land Protection Division
Voluntary Cleanup Program

Enclosures

Cc: Abby Lazar, A&M Engineering and Environmental Services, Inc.

Latest Map



A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

PROPOSED MONITORING WELL & SURFACE SOIL SAMPLE LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

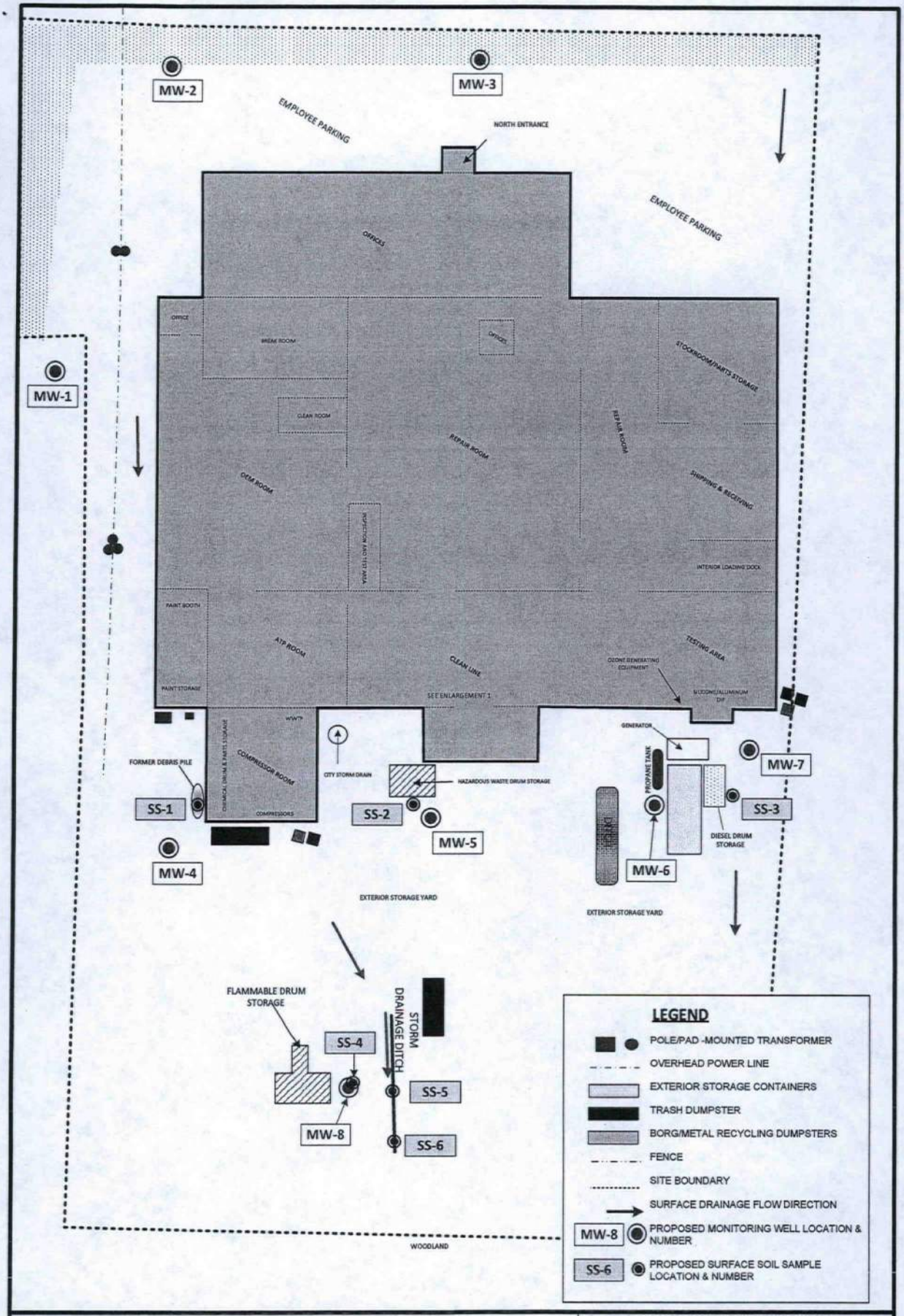
SCALE:	DATE:	FIGURE NO.
AS SHOWN	06/04/2010	FIGURE 4
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

Mallory, Heather

From: Abby Lazar [ALazar@aandmengineering.com]
Sent: Friday, June 04, 2010 10:54 AM
To: Mallory, Heather
Cc: billw@limcoairepair.com
Subject: Limco Airepair - Proposed Sample Location Map
Attachments: Proposed Monitor Wells - Limco.pdf

Heather:
It was a pleasure meeting with you this morning.
I just wanted to forward you the new Proposed Monitoring Well & Surface Soil Location Map.
Let me know if you want to move any locations. I just want to make sure that we've got them in the right locations.
Thanks!

Abby Lazar | Project Manager
A & M Engineering and Environmental Services, Inc.
10010 East 16th Street | Tulsa, Oklahoma 74128
T 918 665 6575 | F 918 665 6576| C 918 231 1916
alazar@aandmengineering.com | www.aandmengineering.com



A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

PROPOSED MONITORING WELL & SURFACE SOIL SAMPLE LOCATION MAP

LIMCO AIREPAIR PROPERTY

5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	06/04/2010	FIGURE 4
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	AML	2059-003

LAND PROTECTION DIVISION
CONTROL SHEET

Program Code 29206 2411

Subject: Limo Aire pair

Type of Letter: Update Request

Date Draft Submitted: 12-23-11

Send Copies to: _____

		Initials	Date
1.	Typist Heather Mallory		
2.	Preparer (Add or mark through names listed below as appropriate for review of this letter)	HRM	12-23-11

Letters to be submitted in draft (not on letterhead) form to the following:

3.	Preparer's Supervisor Ray Roberts	RR	12/28/11
4.	Compliance _____		
5.	Attorney/Legal _____		
6.	Clerical ~~Linda Farber~~ Brenden Matthews	BM	12/29/11
7.	Signatory Heather Mallory	HM	12-29-11
8.	_____		

Final letter (prepared on letterhead & ready for mailing) to be submitted to the following:

1.	Preparer (I have re-read this letter for content & quality)	HM	12-29-11
2.	Data Entry (if applicable)		
3.	Clerical ~~Linda Farber~~ Brenden Matthews	BM	1/4/12
4.	Preparer's Supervisor Ray Roberts	RR	12/30/11
5.	Signature Heather Mallory	HM	12-29-11

Letter will be returned to clerical person for copying and mailing.

Date letter mailed/Initial: 1/4/12 BM

Certified Mail # 7011 0470 0000 6364 8775 - Bill

(This control sheet is to be attached to file copy of **final letter** and placed in facility file.)

7011 0470 0000 6364 8782 - Abby

Revised 4/29/03

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.

RECEIVED
MAR 18 2009
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

LIMCO AIREPAIR PROPERTY
5304 SOUTH LAWTON AVENUE
(WITHIN THE NW ¼ OF THE NE ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
5304 SOUTH LAWTON AVENUE
TULSA, OKLAHOMA 74107
ATTN: MR. DAN KRAFT

A & M PROJECT NO. 2059-002

FEBRUARY 10, 2009

PREPARED BY
A & M ENGINEERING AND ENVIRONMENTAL SERVICES
10010 E. 16TH STREET
TULSA, OKLAHOMA 74136
AANDMENGINEERING@AANDMENGINEERING.COM
PHONE: (918) 665-6575 FAX: (918) 665-6576

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.

10010 E. 16TH STREET
TULSA, OK 74128-4813

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION
(918) 665-6575 • FAX (918) 665-6576
EMAIL: aandm@aandmengineering.com

RECEIVED
MAR 18 2009
LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

February 10, 2009

Mr. Dan Kraft
Limco Airepair, Inc.
5304 South Lawton Avenue
Tulsa, Oklahoma 74107

RE: **LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT (ESA)**
LIMCO AIREPAIR, INC.
5304 SOUTH LAWTON AVENUE
TULSA, OKLAHOMA
A & M PROJECT NO. 2059-002

Dear Mr. Kraft:

Enclosed are three (3) hard copies and one (1) digital copy of the Limited Phase II Environmental Site Assessment (ESA) that A & M Engineering and Environmental Services, Inc. (A & M Engineering) conducted at the above referenced site in January and February 2009. Conclusions and recommendations are provided in Sections 4.0 and 5.0 of the report.

If you have any other questions or need further assistance with this matter, please call me at (918) 665-6575.

Respectfully Submitted,

Irfan Taner, C.P.G.
Chief Geologist

Abigail L. Gleeson
Project Manager

Enclosures

A & M ENGINEERING & ENVIRONMENTAL SERVICES, INC.

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

LIMCO AIREPAIR PROPERTY
5304 SOUTH LAWTON AVENUE
(WITHIN THE NW ¼ OF THE NE ¼ OF SECTION 35, TOWNSHIP 19 NORTH, RANGE 12 EAST)
TULSA, TULSA COUNTY, OKLAHOMA

PREPARED FOR:
LIMCO AIREPAIR, INC.
5304 SOUTH LAWTON AVENUE
TULSA, OKLAHOMA 74107
ATTN: MR. DAN KRAFT

A & M PROJECT NO. 2059-002

FEBRUARY 10, 2009

PREPARED BY
A & M ENGINEERING AND ENVIRONMENTAL SERVICES
10010 E. 16TH STREET
TULSA, OKLAHOMA 74136
AANDMENGINEERING@AANDMENGINEERING.COM
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APPENDIX B - BORING LOGS
APPENDIX C – LABORATORY ANALYTICAL REPORT

1.0 INTRODUCTION

A Phase I Environmental Site Assessment (ESA) was conducted at the Limco Airepair Facility in December 2008 and January 2009 by A & M Engineering and Environmental Services, Inc. (A&M Engineering). In order to further evaluate the condition of the subsurface near the floor grates and pits near the Clean Line area and WWTS, further assessment of the soil and groundwater was recommended.

A & M Engineering was contracted by Limco Airepair to drill four (4) borings on-site and collect soil and groundwater samples.

This report documents the soil and groundwater samples and the results for the Limco Airepair facility.

2.0 DRILLING AND SOIL SAMPLING

On January 26, 2009, four (4) borings (TH-1 through TH-4) were drilled at the site. All of the borings were drilled near the main building. No borings were drilled on the leased property located west of the main facility. TH-1 was located north of the main building and employee parking lot and was the upgradient boring. TH-2 was situated approximately 50 feet southeast of the Compressor Room. Figure 1 shows the site location on a Topographic Map and Figure 2 shows boring locations. Both Figures are provided in Appendix A. The boring logs are provided in Appendix B. Photographs are provided in Appendix C.

The borings were drilled with truck-mounted Geoprobe drill rig. Representative samples were obtained by the split-barrel sampling procedure. All four (4) borings were dilled to a depth of approximately 12 to 16 feet.

The upgradient boring encountered approximately two (2) inches of topsoil and grass. From two (2)-inches to six (6) feet, red brown silty clay was encountered. From six (6) to eight (8) feet brown silty clay, from eight (8) to twelve (12) the clay became moist. From twelve (12) to fourteen (14) the soil consisted of light brown sandy silt. Sandy silt with weathered shale was encountered from fourteen (14) to sixteen (16) feet. Weathered shale was encountered at 16 feet.

The remaining borings generally encountered about eight (8) inches of gravel then the soil consisted of brown silty clay to approximately eight (8) feet. Light brown sandy silt was encountered from approximately eight (8) to twelve (12) feet.

No odors were observed in any of the borings.

Soil samples were collected at a depth of between one (1) and two (2 feet) from borings TH-2 (Sample S-2) and TH-3 (Sample S-3).

An additional soil sample (S-Drum) was collected east of the flammable drum storage in a drainage ditch. A visible discolored layer was observed in the soil and the soil sample was collected along that discolored layer.

All of the borings were completed with one (1)-inch diameter screens for groundwater sampling. After letting both borings recharge for groundwater, water samples were collected from TH-1, TH-2, and TH-4. There was no groundwater in TH-3 so no groundwater sample was collected.

After collecting the samples, all four (4) borings were plugged with Bentonite.

The soil and groundwater samples were delivered to Teklab, Inc. in Collinsville, Illinois via Fed-Ex, for analysis. The analytical parameters included:

- Solvent Screen (Method 8260)
- Priority Pollutant Metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, and Zinc)
- Nitrate
- Chloride
- Fluoride
- pH
- Conductivity

3.0 ANALYTICAL RESULTS

GROUNDWATER:

The groundwater analytical results (detected) are tabulated in Table 1.

TH-1: Groundwater concentration levels in TH-1 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, Mercury, and Zinc above the Primary Drinking Water Maximum Contaminant Levels (MCLs).

TH-2: Groundwater concentration levels in TH-2 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead, and Trichloroethylene above MCLs.

TH-3: No groundwater sample was collected from TH-3 since there was no water in the boring.

TH-4: Groundwater concentration levels in TH-4 were elevated for Arsenic, Barium, Beryllium, Cadmium, Chromium, and Lead above MCLs.

The concentrations that are above the MCLs are highest in the upgradient sample (TH-1) (See Table 1). The upgradient TH-1 sample did not have any detected organics, however, TH-2 and TH-4 have some elevated organic parameters (see Table 1). The organic parameters are low in concentration except for the Trichloroethylene in TH-2. Trichloroethylene in TH-2 is 0.202 mg/L and is above the MCL of 0.005 mg/L.

Table 1 - Groundwater Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	TH-1	TH-2	TH-4	MCL	Unit
Primary Metals					
Antimony	<0.5	<0.25	<0.05	0.006	mg/L
Arsenic	**0.824**	**0.55**	**0.25**	0.01	mg/L
Barium	**16.8**	**9.59**	**2.58**	2	mg/L
Beryllium	**0.074**	**0.0485**	**0.0135**	0.004	mg/L
Cadmium	**0.55**	**0.033**	**0.0052**	0.005	mg/L
Chromium	**1.98**	**1.2**	**0.446**	0.1	mg/L
Copper	0.888	0.756	0.279	1.3	mg/L
Lead	**1.87**	**1.01**	**0.322**	0.05	mg/L
Selenium	<0.5	<0.25	<0.12	0.05	mg/L
Thallium	<0.17	<0.12	<0.0500	0.002	mg/L
Mercury	**0.00228**	0.00115	0.00049	0.002	mg/L
Secondary Metals					
Nickel	1.98	1.5	0.48		mg/L
Potassium	107	76	35.9		mg/L
Silver	<0.1	0.0066	<0.01	0.1	mg/L
Sodium	26.2	37.7	32.6		mg/L
Zinc	**5.37**	3.49	1.37	5	mg/L
Chloride	46	59	39	250	mg/L
Organics					
Tricholoroethylene	ND	**0.202**	0.001	0.005	mg/L
Acetone	ND	ND	0.0052	22	mg/L
2-Butanone	ND	0.0084	ND	7.1	mg/L
cis- 1,2-Dichloroethene	ND	0.0017	ND	0.07	mg/L
Toluene	ND	0.001	ND	1	mg/L
Miscellaneous					
Fluoride	0.26	0.35	0.23	4	mg/L
Nitrate	3.04	2.48	2.15	10	mg/L
Nitrite	0.15	0.05	0.06	1	mg/L
Conductivity	452	872	605		µmhos/cm
pH	6.77	7.12	7.24	6.5-8.5	S.U.

BOLD indicates concentrations above the MCL (Maximum Contaminant Level) per the EPA National Drinking Water Standards

SOIL:

A total of three (3) soil samples were collected at the site. Two (2) of the samples were collected from the borings TH-2 and TH-3 at a depth of one (1) to two (2) feet deep, below the gravel layer. The third sample (S-Drum) was collected from a visibly discolored layer that was observed in a drainage ditch just east of the flammable drum storage area.

The soil samples were analyzed for volatiles (SW-846 Method 8260), Priority Pollutant Metals, pH, conductivity, Nitrate, Chloride, and Fluoride. The analytical report is provided in Appendix D. The detected analytical parameters are tabulated on Table 2 (soil).

Metals and a few organic parameters were detected in the soil samples, however the detected parameters were in relatively low concentrations. The S-Drum sample showed elevated concentrations levels compared to the other two soil samples for Copper, Selenium, and Zinc. The detected parameter concentration levels were compared to the Risk-Based Screening Levels for Industrial Sites (DAF=1) (See Table 2) and none of the detected parameters exceeded the Risk-Based Screening Levels.

Table 2 - Soil Laboratory Results - Limco Airepair - Tulsa, Oklahoma

Parameter	S-2	S-3	S-Drum	Risk Based Screening Levels for DA F =1 (Industrial)	Unit
Primary Metals					
Antimony	<4.81	<4.81	<5.0	4,100	mg/Kg
Arsenic	10	5.54	6.63	1.6	mg/Kg
Barium	62.7	81.5	94.1	190,000	mg/Kg
Beryllium	0.35	0.48	0.49	2,000	mg/Kg
Cadmium	0.21	0.31	1.28	810	mg/Kg
Chromium (Total)	16.4	14.1	28	1,400	mg/Kg
Copper	8.89	10.3	124	41,000	mg/Kg
Lead	16.1	13.6	19	800	mg/Kg
Selenium	4.56	<4.0	28.1	5,100	mg/Kg
Thallium	<5.0	<5.0	<4.9	66	mg/Kg
Mercury	0.049	0.071	0.298	28	mg/Kg
Secondary Metals					
Nickel	38.8	13.3	34.2	20,000	mg/Kg
Potassium	1370	1720	1370		mg/Kg
Silver	0.64	<0.55	0.71	5,100	mg/Kg
Sodium	230	138	77		mg/Kg
Zinc	43.1	38	294	310,000	mg/Kg
Chloride	17	115	28		mg/Kg
Organics					
Tricholoroethylene	ND	ND	ND	14	mg/Kg
Naphthalene	ND	0.0031	0.0042		mg/Kg
Chloroform	ND	ND	0.0016	1.5	mg/Kg
Toluene	ND	ND	0.0025	46,000	mg/Kg
Miscellaneous					
Fluoride	3.87	3.15	5.07	61,000	mg/Kg
Nitrate	38.5	21.9	0.5	160,000	mg/Kg
Conductivity	800	654	364		µmhos/cm
pH	8	8.14	8.06		S.U.

4.0 CONCLUSIONS

The Limited Phase II Environmental Site Assessment indicates that the Limco Airepair site underlain by unconsolidated alluvial (mainly clay, silt, and sand) to approximately 12 to 16 feet deep. The groundwater was encountered in three (3) of the (4) borings at a depth of 10 to 11 feet deep.

The soil samples had some detectible metals and organics at relatively low concentrations. One sample S-Drum had slightly elevated concentrations of Copper, Selenium, and Zinc. None of the detected parameters exceeded the Risk-Based Screening Levels for Industrial sites.

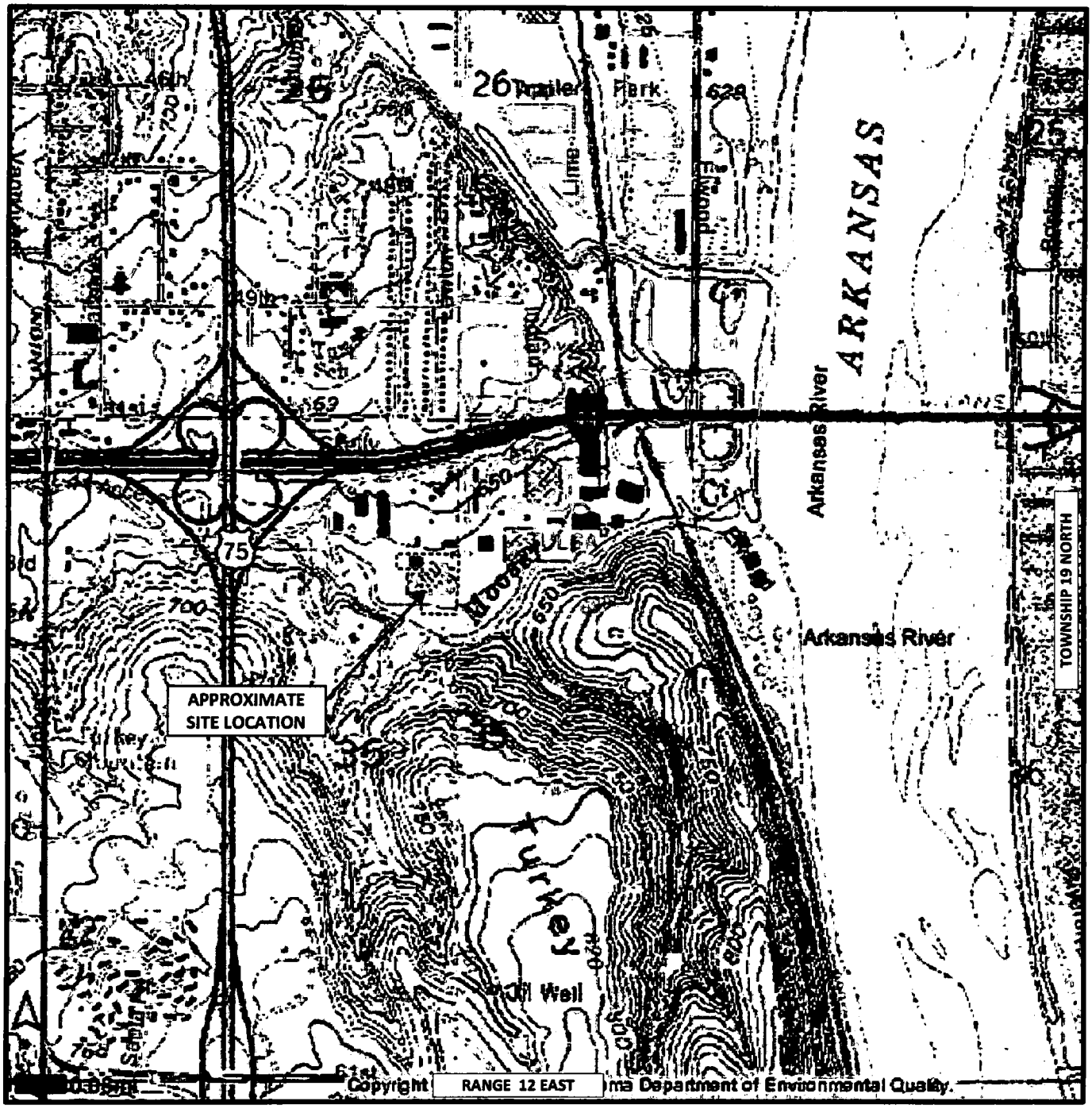
The groundwater is encountered at the base of the alluvial unit which has a low yield. The analytical data of groundwater samples from the three (3) borings show metals impact (Arsenic, Barium, Beryllium, Cadmium, Chromium, Lead and Mercury) that exceed the Maximum Contaminant Levels for Primary Drinking Waters Standards. However, the metals impact is not related to the subject site because the upgradient boring (TH-1) has the highest metals concentrations. TH-2 groundwater sample detected Trichloroethylene (TCE) at 0.202 mg/L concentration and TH-4 at 0.001 mg/L. TCE was not detected in TH-1 (upgradient) groundwater sample. Therefore, TCE contamination maybe related to the subject facility. The Trichloroethylene MCL is 0.005 mg/L and TH-2 groundwater exceeded this level.

5.0 RECOMMENDATIONS

A & M Engineering recommends that the impacted soil from the drainage ditch has relatively low concentrations of Zinc, Selenium, and Copper and below screening levels, should be removed and properly disposed off-site. The impacted soil is dark colored and is a one (1) to three (3) inches thick.

A & M Engineering recommends further evaluation to determine the extent of the impact for metals and specifically Trichloroethylene to the groundwater. In addition, the evaluation should be concentrated on verification of the TCE and other organic contaminants to the groundwater.

APPENDIX A - FIGURES



7.5-MINUTE TOPOGRAPHIC MAP
SAPULPA NORTH AND JENKS QUADRANGLES – TULSA COUNTY, OKLAHOMA
LATITUDE: 36° 5' 14.2" LONGITUDE: 96° 0' 7.7"

N

SCALE

0 0.25 0.50 0.75 1 mile

CONTOUR LINES ARE AT 10' INTERVALS

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

TOPOGRAPHIC SETTIING MAP

LIMCO AIREPAIR PROPERTY
5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	12/29/2008	FIGURE 1
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	ALG	2059-001

N

TH-1
(UPGRADIENT)

EMPLOYEE PARKING

NORTH ENTRANCE

EMPLOYEE PARKING

OFFICES

OFFICE

BREAK ROOM

OFFICES

STOCKROOM/PARTS STORAGE

CLEAN ROOM

REPAIR ROOM

REPAIR ROOM

OEM ROOM

SHIPPING & RECEIVING

INSPECTION AND TEST AREA

INTERIOR LOADING DOCK

PAINT BOOTH

ATP ROOM

CLEAN LINE

TESTING AREA

OZONE-GENERATING EQUIPMENT

PAINT STORAGE

SEE ENLARGEMENT 1

SILICONE/ALUMINUM DIP

GENERATOR

WWTP

DEBRIS PILE

CHEMICAL DRUM & PARTS STORAGE

COMPRESSOR ROOM

CITY STORM DRAIN

DEBRIS/EMPTY DRUMS

PROPANE TANK

3 55-GAL. DIESEL DRUMS

TH-4

HAZARDOUS WASTE DRUM STORAGE

TH-3
S-3

TH-2
S-2

COMPRESSORS

EXTERIOR STORAGE YARD

EXTERIOR STORAGE YARD

STORM DRAIN DITCH

FLAMMABLE DRUM STORAGE

S-DRUM

WOODLAND

LEGEND

- POLE/PAD -MOUNTED TRANSFORMER
- OVERHEAD POWER LINE
- EXTERIOR STORAGE CONTAINERS
- TRASH DUMPSTER
- BORG/METAL RECYCLING DUMPSTERS
- FENCE
- SITE BOUNDARY
- SURFACE DRAINAGE FLOW DIRECTION
- SAMPLE LOCATION
- TH-2 S-2 SAMPLE NO. (S=SOIL TH=GROUNDWATER)

A & M ENGINEERING AND
ENVIRONMENTAL SERVICES, INC.

ENGINEERING • ENVIRONMENTAL • CONSTRUCTION

SAMPLE LOCATION MAP

LIMCO AIREPAIR PROPERTY
5304 SOUTH LAWTON AVENUE – TULSA, OKLAHOMA

SCALE:	DATE:	FIGURE NO.
AS SHOWN	02/09/2009	FIGURE 2
APPROVED BY:	DRAWN BY:	PROJECT NO.
IT	ALG	2059-002

APPENDIX B - BORING LOGS

SOIL BORING LOG

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.	DRILLING METHOD: GEO PROBE		BORING NO. TH-1
SITE NAME AND LOCATION LIMCO AIREPAIR, INC. 5304 South Lawton Avenue Tulsa, Oklahoma 74107	SAMPLING METHOD: SPLIT SPOON		SHEET 1 OF 1
			DRILLING START TIME: 09:54 / FINISH TIME: 10:14
WEATHER: LIGHT FREEZING RAIN TEMP: 26 °F	WATER LEVEL / TIME		
G.L. ELEV:	DATE		DATE: 01-26-09 / DATE: 01-26-09
DATUM: MSL TOC ELEV:	CASING DEPTH		
DRILL RIG:	TYPE GRAVEL:	CASING DIA:	SCREEN DIA:
ANGLE: BEARING:	TYPE BENTONITE:		SLOT SIZE:
SAMPLE HAMMER TORQUE: FT-LBS			

DEPTH IN FEET	BLOW COUNT	CPM	SYMBOL	DESCRIPTION OF MATERIAL	AS-BUILT DRAWING & DESCRIPTION
0				0'–2': TOPSOIL	
5				2'–6': RED BROWN SILTY CLAY	
10				6'–12': BROWN SILTY CLAY	
15				12'–14': LIGHT BROWN SILT WITH SAND 14'–16': SANDY SILT WITH WEATHERED SHALE 16'–16.5': WEATHERED SHALE	
20				TOTAL BOING DEPTH = 16.5 FT	
25					
30					

DRILLING CONTR: MOHAWK DRILLING, INC.

KEVIN WILKIE

LOGGED BY: ABIGAIL GLEESON

DATE: JANUARY 26, 2009 CHK'D BY: IT

SOIL BORING LOG

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.	DRILLING METHOD: GEO PROBE		BORING NO. TH-2
SITE NAME AND LOCATION LIMCO AIREPAIR, INC. 5304 South Lawton Avenue Tulsa, Oklahoma 74107	SAMPLING METHOD: SPLIT SPOON		SHEET 1 OF 1
			DRILLING START TIME 11:40 / FINISH TIME 11:55
WEATHER: LIGHT FREEZING RAIN TEMP: 26 °F	WATER LEVEL / TIME		
G.L. ELEV:	DATE		DATE 01-26-09 / DATE 01-26-09
DATUM: MSL TOC ELEV:	CASING DEPTH		
DRILL RIG:	TYPE GRAVEL:	CASING DIA:	SCREEN DIA:
ANGLE: BEARING:	TYPE BENTONITE:		SLOT SIZE:
SAMPLE HAMMER TORQUE: FT-LBS			

DEPTH IN FEET	BLOW COUNT	CPM	SYMBOL	DESCRIPTION OF MATERIAL	AS-BUILT DRAWING & DESCRIPTION
5				0"–8": GRAVEL 8"–2.5': TOPSOIL 2.5'–9': BROWN SILTY CLAY	
10				9'–10': TAN SANDY CLAY WITH SILT 10'–12': MULTI COLORED SANDY CLAY WITH SILT	
15				TOTAL BOING DEPTH = 12 FT	
20					
25					
30					

DRILLING CONTR: MOHAWK DRILLING, INC. KEVIN WILKIE

LOGGED BY: ABIGAIL GLEESON

DATE: JANUARY 26, 2009 CHK'D BY: IT

SOIL BORING LOG

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.	DRILLING METHOD: GEO PROBE		BORING NO. TH-3
SITE NAME AND LOCATION LIMCO AIREPAIR, INC. 5304 South Lawton Avenue Tulsa, Oklahoma 74107	SAMPLING METHOD: SPLIT SPOON		SHEET 1 OF 1
			DRILLING START / FINISH
	WATER LEVEL		TIME / TIME
WEATHER: LIGHT FREEZING RAIN TEMP: 26 °F	TIME		12:40 / 13:02
G.L. ELEV:	DATE		DATE / DATE
DATUM: MSL TOC ELEV:	CASING DEPTH		01-26-09 / 01-26-09

DRILL RIG:	TYPE GRAVEL:	CASING DIA:	SCREEN DIA:
ANGLE: BEARING:	TYPE BENTONITE:		SLOT SIZE:
SAMPLE HAMMER TORQUE: FT-LBS			

DEPTH IN FEET	BLOW COUNT	CPM	SYMBOL	DESCRIPTION OF MATERIAL	AS-BUILT DRAWING & DESCRIPTION
5				0"–15": GRAVEL	
				15"–9': DARK BROWN SILTY CLAY	
10				9'–11': DARK BROWN SILTY CLAY WITH SHALE	
				11'–12': SHALE MIX	
				TOTAL BOING DEPTH = 12 FT	
15					
20					
25					
30					

DRILLING CONTR: MOHAWK DRILLING, INC. KEVIN WILKIE

LOGGED BY: ABIGAIL GLEESON

DATE: JANUARY 26, 2009 CHK'D BY: IT

SOIL BORING LOG

A & M ENGINEERING AND ENVIRONMENTAL SERVICES, INC.	DRILLING METHOD: GEO PROBE		BORING NO. TH-4
SITE NAME AND LOCATION LIMCO AIREPAIR, INC. 5304 South Lawton Avenue Tulsa, Oklahoma 74107	SAMPLING METHOD: SPLIT SPOON		SHEET 1 OF 1
			DRILLING START TIME: 11:40 / FINISH TIME: 11:55
WEATHER: LIGHT FREEZING RAIN TEMP: 26 °F	WATER LEVEL / TIME		
G.L. ELEV:	DATE		DATE: 01-26-09 / DATE: 01-26-09
DATUM: MSL TOC ELEV:	CASING DEPTH		
DRILL RIG:	TYPE GRAVEL:	CASING DIA:	SCREEN DIA:
ANGLE: BEARING:	TYPE BENTONITE:		SLOT SIZE:
SAMPLE HAMMER TORQUE: FT-LBS			

DEPTH IN FEET	BLOW COUNT	CPM	SYMBOL	DESCRIPTION OF MATERIAL	AS-BUILT DRAWING & DESCRIPTION
5				0"–8": TOPSOIL	
				8"–8': BROWN SILTY CLAY	
10				8'–10': SANDY SILT WITH CLAY	
				10'–12': SANDY SILT WITH WEATHERED SHALE	
15				TOTAL BOING DEPTH = 12 FT	
20					
25					
30					

DRILLING CONTR: MOHAWK DRILLING, INC

KEVIN WILKIE

LOGGED BY: ABIGAIL GLEESON

DATE: JANUARY 26, 2009 CHK'D BY: IT

APPENDIX C – LABORATORY ANALYTICAL REPORT

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

February 06, 2009

Abby Gleeson
A&M Engineering
10010 E. 16th St.
Tulsa, OK 74128
TEL: (918) 665-6575
FAX: (918) 665-6576

ACCREDITED IN ACCORDANCE WITH nelac
NELAP Accredited #100226

RE: 2059-002 **WorkOrder:** 09010906

Dear Abby Gleeson:

TEKLAB, INC received 6 samples on 1/28/2009 9:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Richard H. Mannz
Project Manager
(618)344-1004 ex. 38

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: A&M Engineering
Project: 2059-002
LabOrder: 09010906
Report Date: 06-Feb-09

CASE NARRATIVE

Cooler Receipt Temp: 4.8 °C

State accreditations:

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

This is a revised report. Please replace your original report dated February 4, 2009 for this work order with this revised report. Barium has been added to the metals list per your request.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**C** - Client requested RL below PQL
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**D** - Diluted out of sample
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**E** - Value above quantitation range
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**H** - Holding time exceeded
TNTC - Too numerous to count (> 200 CFU)	**X** - Value exceeds Maximum Contaminant Level	**MI** - Matrix interference
Q - QC criteria failed or noncompliant CCV	**#** - Unknown hydrocarbon	**DNI** - Did not ignite
NELAP - IL ELAP and NELAP Accredited Field of Testing	**IDPH** - IL Dept. of Public Health	

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-001
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-3
Collection Date: 1/26/2009 12:50:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		13.1	%	1	1/28/2009 1:50:00 PM	MAB
EPA 600 2-78-054 METHOD 3.2.18.1								
Specific Conductance, Solid		1		654	µmhos/cm	1	1/30/2009 9:00:00 AM	NJM
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		86.9	%	1	1/28/2009 1:50:00 PM	MAB
STANDARD METHODS 18TH ED. 4500-CL E (TOTAL)								
Chloride		12	S	115	mg/Kg-dry	1	1/29/2009 11:22:00 AM	DLW
STANDARD METHODS 18TH ED. 4500-NO3 F								
Nitrogen, Nitrate (as N)	NELAP	2.30		21.9	mg/Kg-dry	4	1/28/2009 10:46:00 AM	DLW
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	4.81		< 4.81	mg/Kg-dry	1	1/30/2009 1:30:07 PM	LAL
Arsenic	NELAP	2.50		5.54	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Barium	NELAP	0.50		81.5	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Beryllium	NELAP	0.10		0.48	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Cadmium	NELAP	0.20		0.31	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Chromium	NELAP	1.00		14.1	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Copper	NELAP	1.00		10.3	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Lead	NELAP	4.00		13.6	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Nickel	NELAP	1.00		13.3	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Potassium	NELAP	10.0		1720	mg/Kg-dry	1	1/30/2009 11:26:18 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
Sodium	NELAP	5.00		138	mg/Kg-dry	1	1/30/2009 11:26:18 AM	LAL
Thallium	NELAP	5.00		< 5.00	mg/Kg-dry	1	2/2/2009 9:22:41 AM	JMW
Zinc	NELAP	1.00		38.0	mg/Kg-dry	1	1/29/2009 6:20:51 PM	LAL
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1,1-Trichloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1,2,2-Tetrachloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1,2-Trichloro-1,2,2-trifluoroethane		5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1,2-Trichloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1-Dichloro-2-propanone		57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1-Dichloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1-Dichloroethene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,1-Dichloropropene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2,3-Trichlorobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2,3-Trichloropropane	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2,3-Trimethylbenzene		5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-001
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-3
Collection Date: 1/26/2009 12:50:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2,4-Trimethylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2-Dibromo-3-chloropropane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2-Dibromoethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2-Dichlorobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2-Dichloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,2-Dichloropropane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,3,5-Trimethylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,3-Dichlorobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,3-Dichloropropane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1,4-Dichlorobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
1-Chlorobutane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
2,2-Dichloropropane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
2-Butanone	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
2-Chlorotoluene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
2-Hexanone	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
2-Nitropropane	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
4-Chlorotoluene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
4-Methyl-2-pentanone	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Acetone	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Acrolein	NELAP	115		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Acrylonitrile	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Allyl chloride	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Benzene	NELAP	1.15		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Bromobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Bromochloromethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Bromodichloromethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Bromoform	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Bromomethane	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Carbon disulfide	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Carbon tetrachloride	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Chlorobenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Chloroethane	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Chloroform	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Chloromethane	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
cis-1,2-Dichloroethene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
cis-1,3-Dichloropropene	NELAP	4.60		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Cyclohexanone		115		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-001
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-3
Collection Date: 1/26/2009 12:50:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dibromochloromethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Dibromomethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Dichlorodifluoromethane	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Ethyl acetate	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Ethyl ether	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Ethyl methacrylate	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Ethylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Heptane		23.0		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Hexachlorobutadiene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Hexachloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Iodomethane	NELAP	11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Isopropylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
m,p-Xylenes	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Methacrylonitrile	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Methyl Methacrylate	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Methyl tert-butyl ether	NELAP	2.30		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Methylacrylate		11.5		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Methylene chloride	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Naphthalene	NELAP	11.5	J	3.1	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
n-Butylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
n-Hexane		23.0		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Nitrobenzene	NELAP	115		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
n-Propylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
o-Xylene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Pentachloroethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
p-Isopropyltoluene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Propionitrile	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
sec-Butylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Styrene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
tert-Butylbenzene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Tetrachloroethene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Tetrahydrofuran	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Toluene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
trans-1,2-Dichloroethene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
trans-1,3-Dichloropropene	NELAP	4.60		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Trichloroethene	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Trichlorofluoromethane	NELAP	5.76		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Vinyl acetate	NELAP	57.6		ND	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-001
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-3
Collection Date: 1/26/2009 12:50:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.30		**ND**	µg/Kg-dry	1	1/28/2009 3:59:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		**100.0**	%REC	1	1/28/2009 3:59:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		**92.2**	%REC	1	1/28/2009 3:59:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		**100.6**	%REC	1	1/28/2009 3:59:00 PM	JSA
Surr: Toluene-d8		80.1-122		**100.2**	%REC	1	1/28/2009 3:59:00 PM	JSA
SW-846 7471A								
Mercury	NELAP	0.011		**0.071**	mg/Kg-dry	1	2/2/2009	MEK
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.14**		1	1/29/2009 1:36:00 PM	NJM
SW-846 9214								
Fluoride	NELAP	1.15		**3.15**	mg/Kg-dry	1	2/3/2009 2:45:00 PM	BSJ

Sample Narrative
Standard Methods 18th Ed. 4500-Cl E (Total)
Matrix spike did not recover within control limits because of sample composition.

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-002
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-Drum
Collection Date: 1/26/2009 11:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		**15.3**	%	1	1/28/2009 1:50:00 PM	MAB
EPA 600 2-78-054 METHOD 3.2.18.1								
Specific Conductance, Solid		1		**364**	µmhos/cm	1	1/30/2009 9:00:00 AM	NJM
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		**84.7**	%	1	1/28/2009 1:50:00 PM	MAB
STANDARD METHODS 18TH ED. 4500-CL E (TOTAL)								
Chloride		12		**28**	mg/Kg-dry	1	1/29/2009 11:22:00 AM	DLW
STANDARD METHODS 18TH ED. 4500-NO3 F								
Nitrogen, Nitrate (as N)	NELAP	0.590	J	**0.50**	mg/Kg-dry	1	1/28/2009 10:46:00 AM	DLW
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	5.00		**< 5.00**	mg/Kg-dry	1	1/30/2009 1:50:12 PM	LAL
Arsenic	NELAP	2.45		**6.63**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Barium	NELAP	0.49		**94.1**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Beryllium	NELAP	0.10		**0.49**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Cadmium	NELAP	0.20		**1.28**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Chromium	NELAP	0.98		**28.0**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Copper	NELAP	0.98		**124**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Lead	NELAP	3.92		**19.0**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Nickel	NELAP	0.98		**34.2**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Potassium	NELAP	9.80		**1370**	mg/Kg-dry	1	1/30/2009 11:33:01 AM	LAL
Selenium	NELAP	3.92		**28.1**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Silver	NELAP	0.54		**0.71**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
Sodium	NELAP	4.90		**77.0**	mg/Kg-dry	1	1/30/2009 11:33:01 AM	LAL
Thallium	NELAP	4.90		**< 4.90**	mg/Kg-dry	1	2/2/2009 9:25:21 AM	JMW
Zinc	NELAP	0.98		**294**	mg/Kg-dry	1	1/29/2009 6:27:20 PM	LAL
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1,1-Trichloroethane	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1,2,2-Tetrachloroethane	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1,2-Trichloro-1,2,2-trifluoroethane		5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1,2-Trichloroethane	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1-Dichloro-2-propanone		59.0		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1-Dichloroethane	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1-Dichloroethene	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,1-Dichloropropene	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2,3-Trichlorobenzene	NELAP	5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2,3-Trichloropropane	NELAP	11.8		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2,3-Trimethylbenzene		5.90		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-002
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-Drum
Collection Date: 1/26/2009 11:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2,4-Trimethylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2-Dibromo-3-chloropropane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2-Dibromoethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2-Dichlorobenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2-Dichloroethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,2-Dichloropropane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,3,5-Trimethylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,3-Dichlorobenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,3-Dichloropropane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1,4-Dichlorobenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
1-Chlorobutane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
2,2-Dichloropropane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
2-Butanone	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
2-Chlorotoluene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
2-Hexanone	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
2-Nitropropane	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
4-Chlorotoluene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
4-Methyl-2-pentanone	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Acetone	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Acrolein	NELAP	118		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Acrylonitrile	NELAP	11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Allyl chloride	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Benzene	NELAP	1.18		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Bromobenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Bromochloromethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Bromodichloromethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Bromoform	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Bromomethane	NELAP	11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Carbon disulfide	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Carbon tetrachloride	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Chlorobenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Chloroethane	NELAP	11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Chloroform	NELAP	5.90	J	1.6	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Chloromethane	NELAP	11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
cis-1,2-Dichloroethene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
cis-1,3-Dichloropropene	NELAP	4.72		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Cyclohexanone		118		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
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ENVIRONMENTAL TESTING LABORATORY

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-002
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-Drum
Collection Date: 1/26/2009 11:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dibromochloromethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Dibromomethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Dichlorodifluoromethane	NELAP	11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Ethyl acetate	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Ethyl ether	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Ethyl methacrylate	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Ethylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Heptane		23.6		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Hexachlorobutadiene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Hexachloroethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Iodomethane	NELAP	11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Isopropylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
m,p-Xylenes	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Methacrylonitrile	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Methyl Methacrylate	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Methyl tert-butyl ether	NELAP	2.36		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Methylacrylate		11.8		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Methylene chloride	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Naphthalene	NELAP	11.8	J	4.2	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
n-Butylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
n-Hexane		23.6		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Nitrobenzene	NELAP	118		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
n-Propylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
o-Xylene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Pentachloroethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
p-Isopropyltoluene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Propionitrile	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
sec-Butylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Styrene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
tert-Butylbenzene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Tetrachloroethene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Tetrahydrofuran	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Toluene	NELAP	5.90	J	2.5	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
trans-1,2-Dichloroethene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
trans-1,3-Dichloropropene	NELAP	4.72		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Trichloroethene	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Trichlorofluoromethane	NELAP	5.90		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Vinyl acetate	NELAP	59.0		ND	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-002
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-Drum
Collection Date: 1/26/2009 11:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.36		**ND**	µg/Kg-dry	1	1/28/2009 4:26:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		**109.2**	%REC	1	1/28/2009 4:26:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117	S	**66.1**	%REC	1	1/28/2009 4:26:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		**109.5**	%REC	1	1/28/2009 4:26:00 PM	JSA
Surr: Toluene-d8		80.1-122		**120.6**	%REC	1	1/28/2009 4:26:00 PM	JSA
SW-846 7471A								
Mercury	NELAP	0.012		**0.298**	mg/Kg-dry	1	2/2/2009	MEK
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.06**		1	1/29/2009 1:38:00 PM	NJM
SW-846 9214								
Fluoride	NELAP	1.18		**5.07**	mg/Kg-dry	1	2/3/2009 2:45:00 PM	BSJ

Sample Narrative

SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS

Surrogate and Internal recoveries were outside QC limits due to matrix interference.

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-003
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-2
Collection Date: 1/26/2009 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		7.5	%	1	1/28/2009 1:50:00 PM	MAB
EPA 600 2-78-054 METHOD 3.2.18.1								
Specific Conductance, Solid		1		800	µmhos/cm	1	1/30/2009 9:00:00 AM	NJM
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		92.5	%	1	1/28/2009 1:50:00 PM	MAB
STANDARD METHODS 18TH ED. 4500-CL E (TOTAL)								
Chloride		11		17	mg/Kg-dry	1	1/29/2009 11:22:00 AM	DLW
STANDARD METHODS 18TH ED. 4500-NO3 F								
Nitrogen, Nitrate (as N)	NELAP	5.41		38.5	mg/Kg-dry	10	1/28/2009 10:46:00 AM	DLW
SW-846 3050B, 6010B, METALS BY ICP								
Antimony	NELAP	4.81		< 4.81	mg/Kg-dry	1	1/30/2009 1:56:38 PM	LAL
Arsenic	NELAP	2.50		10.0	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Barium	NELAP	0.50		62.7	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Beryllium	NELAP	0.10		0.35	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Cadmium	NELAP	0.20		0.21	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Chromium	NELAP	1.00		16.4	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Copper	NELAP	1.00		8.89	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Lead	NELAP	4.00		16.1	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Nickel	NELAP	1.00		38.8	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Potassium	NELAP	10.0		1370	mg/Kg-dry	1	1/30/2009 11:53:57 AM	LAL
Selenium	NELAP	4.00		4.56	mg/Kg-dry	1	1/30/2009 11:53:57 AM	LAL
Silver	NELAP	0.55		0.64	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
Sodium	NELAP	50.0		230	mg/Kg-dry	10	2/2/2009 10:48:55 AM	LAL
Thallium	NELAP	5.00		< 5.00	mg/Kg-dry	1	2/2/2009 9:28:03 AM	JMW
Zinc	NELAP	1.00		43.1	mg/Kg-dry	1	1/29/2009 6:33:49 PM	LAL
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1,1-Trichloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1,2,2-Tetrachloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1,2-Trichloro-1,2,2-trifluoroethane		5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1,2-Trichloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1-Dichloro-2-propanone		54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1-Dichloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1-Dichloroethene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,1-Dichloropropene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2,3-Trichlorobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2,3-Trichloropropane	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2,3-Trimethylbenzene		5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA

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ENVIRONMENTAL TESTING LABORATORY

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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-003
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-2
Collection Date: 1/26/2009 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,4-Trichlorobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2,4-Trimethylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2-Dibromo-3-chloropropane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2-Dibromoethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2-Dichlorobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2-Dichloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,2-Dichloropropane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,3,5-Trimethylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,3-Dichlorobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,3-Dichloropropane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1,4-Dichlorobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
1-Chlorobutane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
2,2-Dichloropropane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
2-Butanone	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
2-Chlorotoluene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
2-Hexanone	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
2-Nitropropane	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
4-Chlorotoluene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
4-Methyl-2-pentanone	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Acetone	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Acrolein	NELAP	108		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Acrylonitrile	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Allyl chloride	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Benzene	NELAP	1.08		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Bromobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Bromochloromethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Bromodichloromethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Bromoform	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Bromomethane	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Carbon disulfide	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Carbon tetrachloride	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Chlorobenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Chloroethane	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Chloroform	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Chloromethane	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
cis-1,2-Dichloroethene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
cis-1,3-Dichloropropene	NELAP	4.33		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Cyclohexanone		108		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA

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Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Dibromochloromethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Dibromomethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Dichlorodifluoromethane	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Ethyl acetate	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Ethyl ether	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Ethyl methacrylate	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Ethylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Heptane		21.6		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Hexachlorobutadiene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Hexachloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Iodomethane	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Isopropylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
m,p-Xylenes	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Methacrylonitrile	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Methyl Methacrylate	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Methyl tert-butyl ether	NELAP	2.16		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Methylacrylate		10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Methylene chloride	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Naphthalene	NELAP	10.8		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
n-Butylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
n-Hexane		21.6		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Nitrobenzene	NELAP	108		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
n-Propylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
o-Xylene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Pentachloroethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
p-Isopropyltoluene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Propionitrile	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
sec-Butylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Styrene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
tert-Butylbenzene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Tetrachloroethene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Tetrahydrofuran	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Toluene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
trans-1,2-Dichloroethene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
trans-1,3-Dichloropropene	NELAP	4.33		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Trichloroethene	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Trichlorofluoromethane	NELAP	5.41		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Vinyl acetate	NELAP	54.1		ND	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE. ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-003
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: S-2
Collection Date: 1/26/2009 11:35:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Vinyl chloride	NELAP	2.16		**ND**	µg/Kg-dry	1	1/28/2009 4:53:00 PM	JSA
Surr: 1,2-Dichloroethane-d4		61-128		**100.2**	%REC	1	1/28/2009 4:53:00 PM	JSA
Surr: 4-Bromofluorobenzene		78.2-117		**93.0**	%REC	1	1/28/2009 4:53:00 PM	JSA
Surr: Dibromofluoromethane		66.6-130		**102.3**	%REC	1	1/28/2009 4:53:00 PM	JSA
Surr: Toluene-d8		80.1-122		**100.2**	%REC	1	1/28/2009 4:53:00 PM	JSA
SW-846 7471A								
Mercury	NELAP	0.011		**0.049**	mg/Kg-dry	1	2/2/2009	MEK
SW-846 9045C								
pH (1:1)	NELAP	1.00		**8.00**		1	1/29/2009 1:41:00 PM	NJM
SW-846 9214								
Fluoride	NELAP	1.08		**3.87**	mg/Kg-dry	1	2/3/2009 2:45:00 PM	BSJ

Sample Narrative

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-004
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-2
Collection Date: 1/26/2009 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 120.1								
Conductivity	NELAP	1		872	µmhos/cm	1	1/29/2009 9:10:00 AM	NJM
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.500		2.48	mg/L	10	1/28/2009 10:46:00 AM	DLW
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		7.12		1	1/29/2009 7:15:00 PM	NJM
STANDARD METHODS 18TH ED. 4500-CL E (TOTAL)								
Chloride	NELAP	1		59	mg/L	1	1/29/2009 11:22:00 AM	DLW
STANDARD METHODS 18TH ED. 4500-F C (TOTAL)								
Fluoride	NELAP	0.10		0.35	mg/L	1	2/3/2009 2:45:00 PM	BSJ
STANDARD METHODS 18TH ED. 4500-NO2 B (TOTAL)								
Nitrogen, Nitrite (as N)	NELAP	0.01		0.05	mg/L	1	1/28/2009 11:30:00 AM	MK
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Antimony	NELAP	0.250		< 0.250	mg/L	5	1/30/2009 12:37:52 PM	LAL
Arsenic	NELAP	0.125		0.550	mg/L	5	1/29/2009 10:23:44 PM	LAL
Barium	NELAP	0.0250		9.59	mg/L	5	1/30/2009 12:37:52 PM	LAL
Beryllium	NELAP	0.0050		0.0485	mg/L	5	1/29/2009 10:23:44 PM	LAL
Cadmium	NELAP	0.0100		0.0330	mg/L	5	1/29/2009 10:23:44 PM	LAL
Chromium	NELAP	0.0500		1.20	mg/L	5	1/29/2009 10:23:44 PM	LAL
Copper	NELAP	0.0500		0.756	mg/L	5	1/29/2009 10:23:44 PM	LAL
Lead	NELAP	0.200		1.01	mg/L	5	1/29/2009 10:23:44 PM	LAL
Nickel	NELAP	0.0500		1.50	mg/L	5	1/29/2009 10:23:44 PM	LAL
Potassium	NELAP	0.500		76.0	mg/L	5	1/30/2009 12:37:52 PM	LAL
Selenium	NELAP	0.250		< 0.250	mg/L	5	1/29/2009 10:23:44 PM	LAL
Silver	NELAP	0.0200	J	0.0066	mg/L	2	1/30/2009 8:16:48 PM	LAL
Sodium	NELAP	2.50		37.7	mg/L	50	2/2/2009 10:08:34 AM	LAL
Thallium	NELAP	0.120		< 0.120	mg/L	1	2/2/2009 9:46:12 AM	JMW
Zinc	NELAP	0.0500		3.49	mg/L	5	1/29/2009 10:23:44 PM	LAL
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-004
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-2
Collection Date: 1/26/2009 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
2-Butanone	NELAP	25.0	J	8.4	µg/L	1	1/28/2009 3:54:00 PM	CCF
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
2-Hexanone	NELAP	25.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
2-Nitropropane	NELAP	50.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Acetone	NELAP	25.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Acetonitrile	NELAP	50.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Acrolein	NELAP	100		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Acrylonitrile	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Allyl chloride	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Benzene	NELAP	2.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Bromobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Bromochloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Bromoform	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Bromomethane	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Butyl acetate		25.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Chloroethane	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-004
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-2
Collection Date: 1/26/2009 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Chloromethane	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Chloroprene	NELAP	20.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
cis-1,2-Dichloroethene	NELAP	5.0	J	1.7	µg/L	1	1/28/2009 3:54:00 PM	CCF
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Cyclohexanone		50.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Dibromomethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Ethyl acetate	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Ethyl ether	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Heptane		20.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Hexachloroethane	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Iodomethane	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Methylacrylate		10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Naphthalene	NELAP	10.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
n-Hexane		20.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Nitrobenzene	NELAP	50.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
o-Xylene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Pentachloroethane	NELAP	20.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Propionitrile	NELAP	50.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Styrene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 3:54:00 PM	CCF

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-004
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-2
Collection Date: 1/26/2009 12:10:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Tetrahydrofuran	NELAP	20.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
Toluene	NELAP	5.0	J	**1.1**	µg/L	1	1/28/2009 3:54:00 PM	CCF
trans-1,2-Dichloroethene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
trans-1,3-Dichloropropene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
trans-1,4-Dichloro-2-butene	NELAP	10.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
Trichloroethene	NELAP	5.0		**202**	µg/L	1	1/28/2009 3:54:00 PM	CCF
Trichlorofluoromethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
Vinyl acetate	NELAP	10.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
Vinyl chloride	NELAP	2.0		**ND**	µg/L	1	1/28/2009 3:54:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		**103.9**	%REC	1	1/28/2009 3:54:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		**103.0**	%REC	1	1/28/2009 3:54:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		**101.4**	%REC	1	1/28/2009 3:54:00 PM	CCF
Surr: Toluene-d8		84.3-114		**103.7**	%REC	1	1/28/2009 3:54:00 PM	CCF
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00100		**0.00115**	mg/L	1	1/29/2009	JMW

Sample Narrative

SW-846 3005A, 6010B, Metals by ICP (Total)

Tl - Elevated reporting limit due to negative interference.
Ag - Elevated reporting limit due to high levels of target and/or non-target analytes.
Sb - Elevated reporting limit due to high levels of target and/or non-target analytes.
Se - Elevated reporting limit due to high levels of target and/or non-target analytes.

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ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
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LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-005
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-4
Collection Date: 1/26/2009 1:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 120.1								
Conductivity	NELAP	1		**605**	µmhos/cm	1	1/29/2009 9:10:00 AM	NJM
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.500		**2.15**	mg/L	10	1/28/2009 10:46:00 AM	DLW
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		**7.24**		1	1/29/2009 7:17:00 PM	NJM
STANDARD METHODS 18TH ED. 4500-CL E (TOTAL)								
Chloride	NELAP	1		**39**	mg/L	1	1/29/2009 11:22:00 AM	DLW
STANDARD METHODS 18TH ED. 4500-F C (TOTAL)								
Fluoride	NELAP	0.10		**0.23**	mg/L	1	2/3/2009 2:45:00 PM	BSJ
STANDARD METHODS 18TH ED. 4500-NO2 B (TOTAL)								
Nitrogen, Nitrite (as N)	NELAP	0.01		**0.06**	mg/L	1	1/28/2009 11:30:00 AM	MK
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Antimony	NELAP	0.0500		**< 0.0500**	mg/L	1	1/30/2009 8:24:18 PM	LAL
Arsenic	NELAP	0.125		**0.250**	mg/L	5	1/29/2009 10:30:14 PM	LAL
Barium	NELAP	0.0100		**2.58**	mg/L	2	1/30/2009 12:44:33 PM	LAL
Beryllium	NELAP	0.0050		**0.0135**	mg/L	5	1/29/2009 10:30:14 PM	LAL
Cadmium	NELAP	0.0040		**0.0052**	mg/L	2	1/30/2009 12:44:33 PM	LAL
Chromium	NELAP	0.0500		**0.446**	mg/L	5	1/29/2009 10:30:14 PM	LAL
Copper	NELAP	0.0500		**0.279**	mg/L	5	1/29/2009 10:30:14 PM	LAL
Lead	NELAP	0.200		**0.322**	mg/L	5	1/29/2009 10:30:14 PM	LAL
Nickel	NELAP	0.0500		**0.480**	mg/L	5	1/29/2009 10:30:14 PM	LAL
Potassium	NELAP	0.200		**35.9**	mg/L	2	1/30/2009 12:44:33 PM	LAL
Selenium	NELAP	0.120		**< 0.120**	mg/L	1	1/30/2009 8:24:18 PM	LAL
Silver	NELAP	0.0100		**< 0.0100**	mg/L	1	1/30/2009 8:24:18 PM	LAL
Sodium	NELAP	2.50		**32.6**	mg/L	50	2/2/2009 10:15:13 AM	LAL
Thallium	NELAP	0.0500		**< 0.0500**	mg/L	1	2/2/2009 9:48:52 AM	JMW
Zinc	NELAP	0.0500		**1.37**	mg/L	5	1/29/2009 10:30:14 PM	LAL
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1,1-Trichloroethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1,2,2-Tetrachloroethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1,2-Trichloroethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1-Dichloro-2-propanone		50.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1-Dichloroethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1-Dichloroethene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,1-Dichloropropene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2,3-Trichlorobenzene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-005
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-4
Collection Date: 1/26/2009 1:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
2-Butanone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
2-Hexanone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
2-Nitropropane	NELAP	50.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Acetone	NELAP	25.0	J	5.2	µg/L	1	1/28/2009 4:25:00 PM	CCF
Acetonitrile	NELAP	50.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Acrolein	NELAP	100		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Acrylonitrile	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Allyl chloride	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Benzene	NELAP	2.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Bromobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Bromochloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Bromoform	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Bromomethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Butyl acetate		25.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Chloroethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-005
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-4
Collection Date: 1/26/2009 1:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Chloromethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Chloroprene	NELAP	20.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Cyclohexanone		50.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Dibromomethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Ethyl acetate	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Ethyl ether	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Heptane		20.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Hexachloroethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Iodomethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Methylacrylate		10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Naphthalene	NELAP	10.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
n-Hexane		20.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Nitrobenzene	NELAP	50.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
o-Xylene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Pentachloroethane	NELAP	20.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Propionitrile	NELAP	50.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Styrene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:25:00 PM	CCF

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE. ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-005
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-4
Collection Date: 1/26/2009 1:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Tetrahydrofuran	NELAP	20.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
Toluene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
trans-1,2-Dichloroethene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
trans-1,3-Dichloropropene	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
trans-1,4-Dichloro-2-butene	NELAP	10.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
Trichloroethene	NELAP	5.0	J	**1.0**	µg/L	1	1/28/2009 4:25:00 PM	CCF
Trichlorofluoromethane	NELAP	5.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
Vinyl acetate	NELAP	10.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
Vinyl chloride	NELAP	2.0		**ND**	µg/L	1	1/28/2009 4:25:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		**102.9**	%REC	1	1/28/2009 4:25:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		**99.2**	%REC	1	1/28/2009 4:25:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		**102.0**	%REC	1	1/28/2009 4:25:00 PM	CCF
Surr: Toluene-d8		84.3-114		**99.1**	%REC	1	1/28/2009 4:25:00 PM	CCF
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00100	J	**0.00049**	mg/L	1	1/29/2009	JMW

Sample Narrative
SW-846 3005A, 6010B, Metals by ICP (Total)
Se - Elevated reporting limit due to high levels of target and/or non-target analytes.

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COLLINSVILLE. ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-006
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-1
Collection Date: 1/26/2009 1:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 120.1								
Conductivity	NELAP	1		452	µmhos/cm	1	1/29/2009 9:10:00 AM	NJM
EPA 600 353.2 R2.0 (TOTAL)								
Nitrogen, Nitrate (as N)	NELAP	0.500		3.04	mg/L	10	1/28/2009 10:46:00 AM	DLW
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		6.77		1	1/29/2009 7:19:00 PM	NJM
STANDARD METHODS 18TH ED. 4500-CL E (TOTAL)								
Chloride	NELAP	1		46	mg/L	1	1/29/2009 11:22:00 AM	DLW
STANDARD METHODS 18TH ED. 4500-F C (TOTAL)								
Fluoride	NELAP	0.10		0.26	mg/L	1	2/3/2009 2:45:00 PM	BSJ
STANDARD METHODS 18TH ED. 4500-NO2 B (TOTAL)								
Nitrogen, Nitrite (as N)	NELAP	0.01		0.15	mg/L	1	1/28/2009 11:30:00 AM	MK
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Antimony	NELAP	0.500		< 0.500	mg/L	10	1/30/2009 12:51:19 PM	LAL
Arsenic	NELAP	0.250		0.824	mg/L	10	1/30/2009 12:51:19 PM	LAL
Barium	NELAP	0.0500		16.8	mg/L	10	1/30/2009 12:51:19 PM	LAL
Beryllium	NELAP	0.0100		0.0740	mg/L	10	1/30/2009 12:51:19 PM	LAL
Cadmium	NELAP	0.0200		0.0550	mg/L	10	1/30/2009 12:51:19 PM	LAL
Chromium	NELAP	0.0500		1.98	mg/L	5	1/29/2009 10:36:52 PM	LAL
Copper	NELAP	0.100		0.888	mg/L	10	1/30/2009 12:51:19 PM	LAL
Lead	NELAP	0.400		1.87	mg/L	10	1/30/2009 12:51:19 PM	LAL
Nickel	NELAP	0.100		1.98	mg/L	10	1/30/2009 12:51:19 PM	LAL
Potassium	NELAP	1.00		107	mg/L	10	1/30/2009 12:51:19 PM	LAL
Selenium	NELAP	0.500		< 0.500	mg/L	10	1/30/2009 12:51:19 PM	LAL
Silver	NELAP	0.100		< 0.100	mg/L	10	1/30/2009 12:51:19 PM	LAL
Sodium	NELAP	2.50		26.2	mg/L	50	2/2/2009 10:21:36 AM	LAL
Thallium	NELAP	0.170		< 0.170	mg/L	1	2/2/2009 9:51:32 AM	JMW
Zinc	NELAP	0.100		5.37	mg/L	10	1/30/2009 12:51:19 PM	LAL
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF

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COLLINSVILLE. ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-006
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-1
Collection Date: 1/26/2009 1:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
2-Butanone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
2-Hexanone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
2-Nitropropane	NELAP	50.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Acetone	NELAP	25.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Acetonitrile	NELAP	50.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Acrolein	NELAP	100		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Acrylonitrile	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Allyl chloride	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Benzene	NELAP	2.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Bromobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Bromochloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Bromoform	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Bromomethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Butyl acetate		25.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Carbon disulfide	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Chlorobenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Chloroethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-006
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-1
Collection Date: 1/26/2009 1:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Chloroform	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Chloromethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Chloroprene	NELAP	20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Cyclohexanone		50.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Dibromomethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Ethyl acetate	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Ethyl ether	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Ethylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Heptane		20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Hexachloroethane	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Iodomethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Methylacrylate		10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Methylene chloride	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Naphthalene	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
n-Hexane		20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Nitrobenzene	NELAP	50.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
o-Xylene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Pentachloroethane	NELAP	20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Propionitrile	NELAP	50.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Styrene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

LABORATORY RESULTS

Client: A&M Engineering
WorkOrder: 09010906
Lab ID: 09010906-006
Report Date: 06-Feb-09

Client Project: 2059-002
Client Sample ID: TH-1
Collection Date: 1/26/2009 1:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Toluene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Trichloroethene	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Vinyl acetate	NELAP	10.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Vinyl chloride	NELAP	2.0		ND	µg/L	1	1/28/2009 4:57:00 PM	CCF
Surr: 1,2-Dichloroethane-d4		74.7-129		104.0	%REC	1	1/28/2009 4:57:00 PM	CCF
Surr: 4-Bromofluorobenzene		86-119		100.9	%REC	1	1/28/2009 4:57:00 PM	CCF
Surr: Dibromofluoromethane		81.7-123		102.0	%REC	1	1/28/2009 4:57:00 PM	CCF
Surr: Toluene-d8		84.3-114		99.7	%REC	1	1/28/2009 4:57:00 PM	CCF
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00100		0.00228	mg/L	1	1/29/2009	JMW

Sample Narrative

SW-846 3005A, 6010B, Metals by ICP (Total)

Tl - Elevated reporting limit due to negative interference.

Sb, Se, and Ag - Elevated reporting limit due to high levels of target and/or non-target analytes.

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

RECEIVING CHECK LIST

Client: A&M Engineering
Project: 2059-002
Lab Order: 09010906
Report Date: 06-Feb-09

Carrier: FedEx

Received By: EKS

Completed by: Marvin L. Darling II
On: 28-Jan-09
Marvin L. Darling

Reviewed by: Richard H. Mannz
On: 28-Jan-09
Richard H. Mannz

Pages to follow: Chain of custody [1] Extra pages included [0]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.8
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☐	Lab ☑	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water - VOA vials have zero headspace?	Yes ☐	No ☑	No VOA vials submitted ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐		

Any No responses must be detailed below or on the COC.

A significant amount of headspace was present in the volatile vials for TH-2. Per E. Tanner, proceed with analysi. MLDII 1/28/09

Additonial nitirc acid was needed upon arrival at the lab for TH-2. EKS 1/28/09

CHAIN OF CUSTODY

pg. ____ of ____ Work Order # 09010906

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: A&M ENGINEERING
Address: 10010 E. 16th ST.
City / State / Zip: TULSA, OK 74128
Contact: ABBY GLEESON Phone: 918-665-6575
E-Mail: agleeson@aandmengineerg.com Fax: 918-665-6576

Samples on: ☒ Ice ☐ Blue Ice ☐ No Ice 4.8 °C
Preserved in: ☒ Lab ☐ Field FOR LAB USE ONLY
Lab Notes: Hnos to TH-2, EKS 1/28/09
Significant headspace in TH-2 vial EKS 1/28/09
Comments: STD TAT per Abby Gleeson, MLP II 1/28/09
Per E. Tanner, ok w/ headspace MLP II 1/28/09
1 DAY

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☒ No
- Are these samples known to be hazardous? ☐ Yes ☒ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☐ Yes ☐ No

Project Name / Number: 2059-002
Sample Collector's Name: ABBY GLEESON

Results Requested: ☐ Standard ☒ 1-2 Day (100% Surcharge) ☐ Other_____ ☐ 3 Day (50% Surcharge)
Billing Instructions: TO A&M

Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	Water	Drinking Water	Soil	Sludge	Sp. Waste	pH	CONDUCTIVITY	VOCs (SW 8260)	PRIORITY POLLUTANT METALS	NITRATE	CHLORIDE	FLUORIDE	SODIUM	POTASSIUM
09010906-001	S-3	1-26-09 1250											✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
-002	S-DRUM	1-26-09 1145											✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
-003	S-2	1-26-09 1135											✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
-004	TH-2	1-26-09 1210									✓					✓	✓	✓	✓	✓	✓	✓	✓	✓
-005	TH-4	1-26-09 1305									✓					✓	✓	✓	✓	✓	✓	✓	✓	✓
-006	TH-1	1-26-09 1330									✓					✓	✓	✓	✓	✓	✓	✓	✓	✓

Relinquished By	Date / Time	Received By	Date / Time
[signature]	1-26-09 1500	[signature] (FedEx)	1/28/09 0900

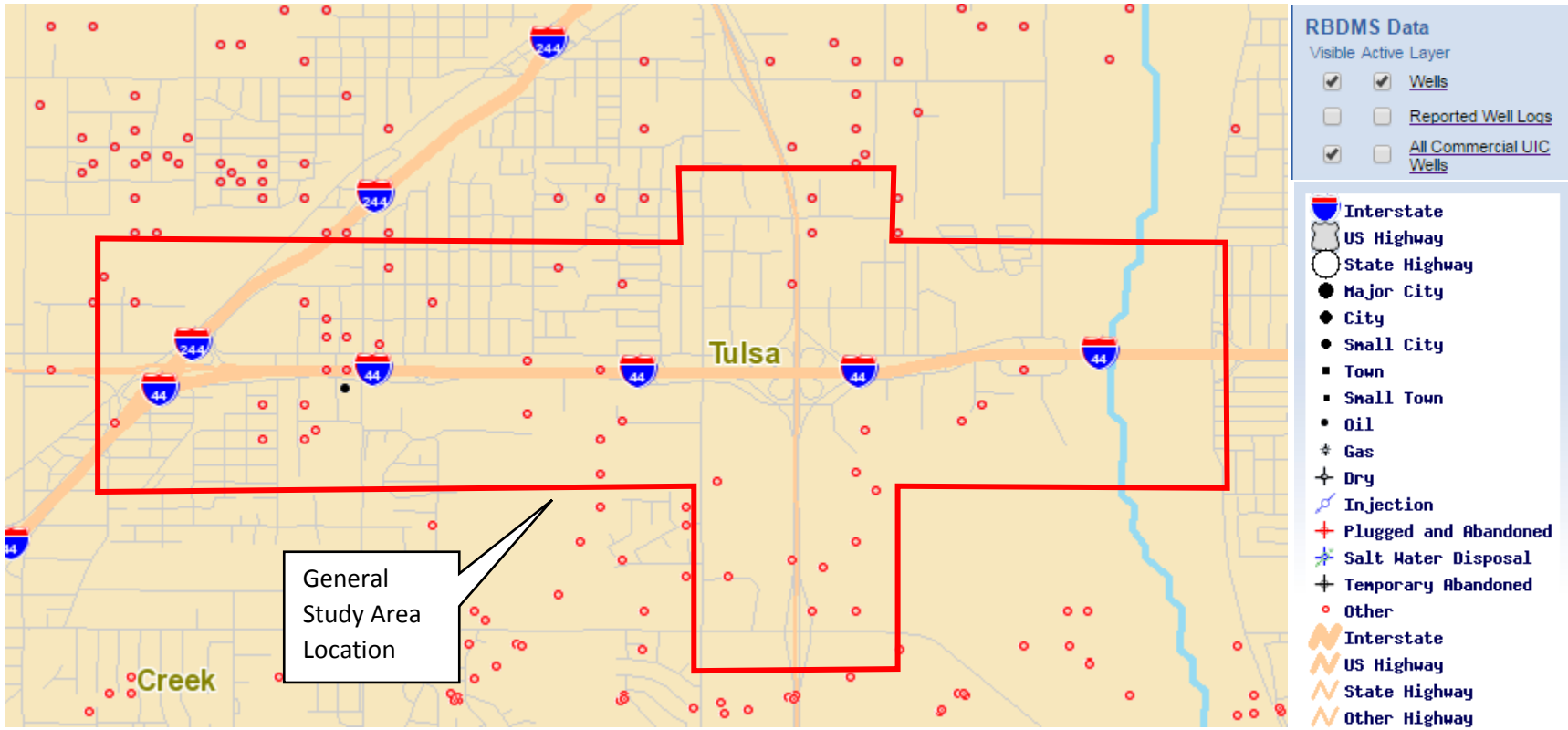
The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE & YELLOW – LAB PINK – SAMPLER'S COPY

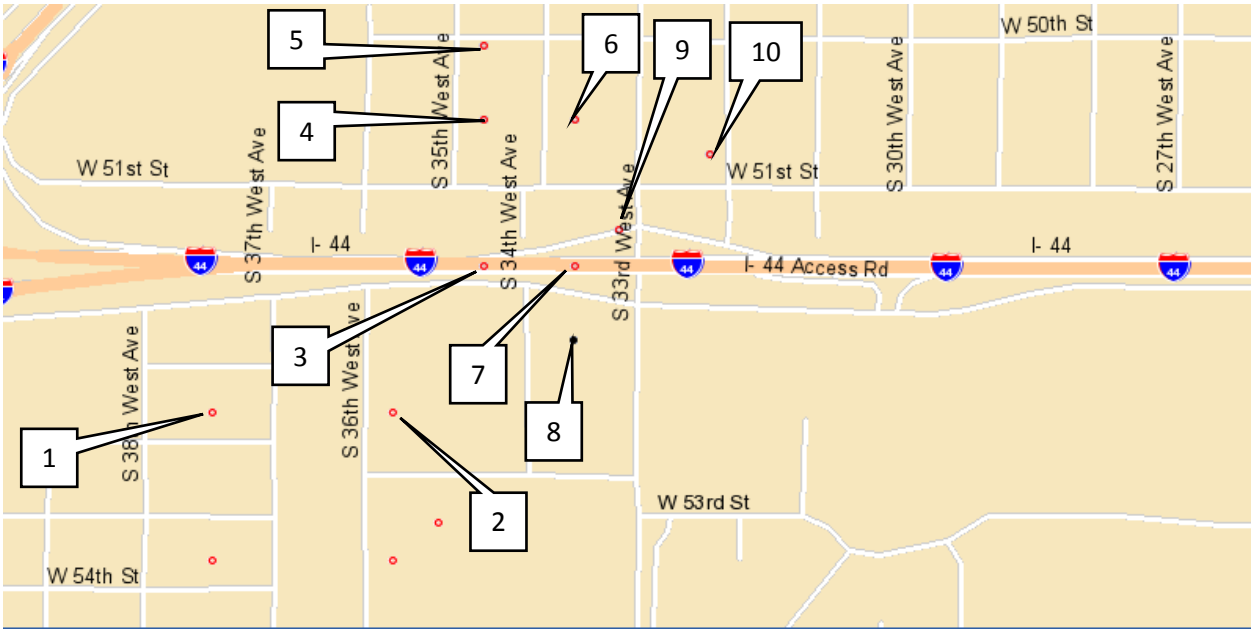
DATE STARTED	DATE COMPLETED	DATE INACTIVE	FACILITY NAME	PHYSICAL LOCATION	CITY NAME	COUNTY NAME	MACO DATE	CO DATE	CASE NUMBER	STATUS DESCRIPTION	ISSUE DESCRIPTION	LATITUDE MEASURE	LONGITUDE MEASURE	BROWNFIELD IND	INSTITUTION CONTROL IND	PROJECT MANAGER	Reassigned to	Proximity to Target Site	Applicable Hydrologic Atlas	Flag
10/1/2009		5/9/2013	Limco Airepair	5304 Lawton Avenue	Tulsa	Tulsa	11/20/2009		09-303	ProgramCode: 292062411 | MACO: $ | Consultant: A&M Engineering and Environmental Services Inc. | Completed Phase I and II. Submitted a site characterization WP on February 9, 2010. We responded with some comments. We awaited their updates to the WP and a sampling date. They said they want to withdraw. 5/9/13-Mailed letter confirming Limco's withdrawl from the program.	Media: gw | Pb, Cr, Hg, & TCE	36.0866826	-96.0006874			Jordan Caldwell		74.8339946	HA-7 - Enid	

Oklahoma Corporation Commission

Oil and Gas Info



Detailed Views of 27 Wells in Study Area or Within 1/8 Mile:



1

Details

Well Information

API Well #	3514303759	Name	BEAR KEZZIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.0871079
Longitude	-96.0348382	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

2

Details

Well Information

API Well #	3514303753	Name	SCOTT MARCHIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.087108
Longitude	-96.0326051	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

3 (within study area)

Details

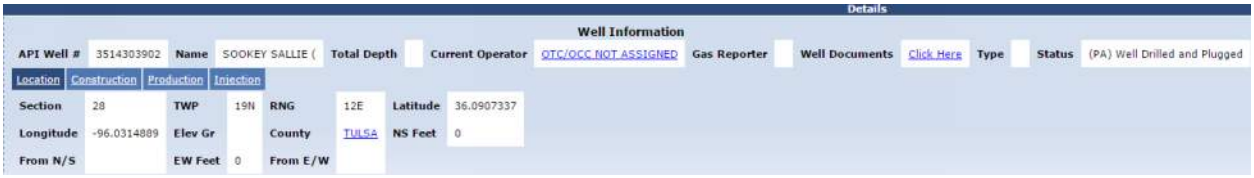
Well Information

API Well #	3514303754	Name	SCOTT MARCHIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.0889209
Longitude	-96.0314885	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

4



Details

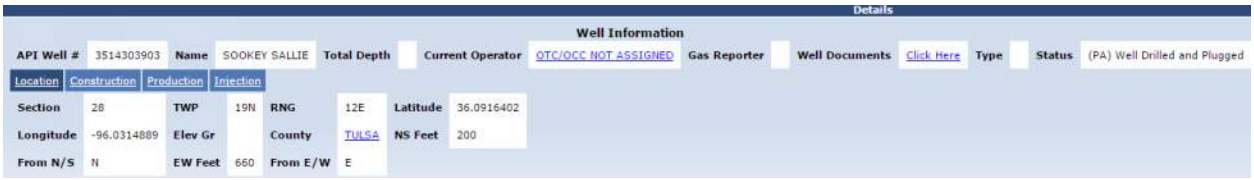
Well Information

API Well #	3514303902	Name	SOOKEY SALLIE (	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	28	TWP	19N	RNG	12E	Latitude	36.0907337
Longitude	-96.0314889	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

5



Details

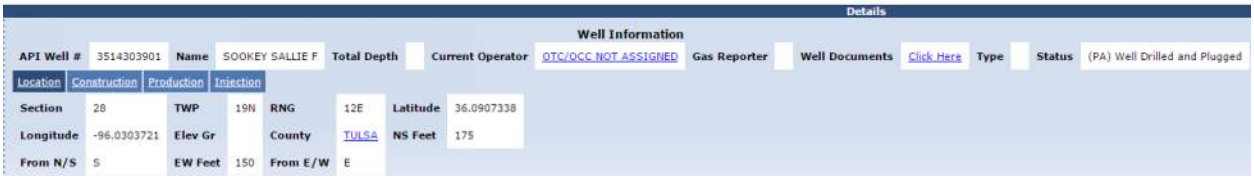
Well Information

API Well #	3514303903	Name	SOOKEY SALLIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	28	TWP	19N	RNG	12E	Latitude	36.0916402
Longitude	-96.0314889	Elev Gr		County	TULSA	NS Feet	200
From N/S	N	EW Feet	660	From E/W	E		

6



Details

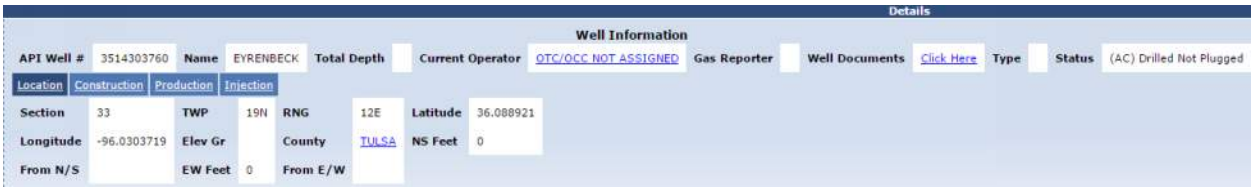
Well Information

API Well #	3514303901	Name	SOOKEY SALLIE F	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	28	TWP	19N	RNG	12E	Latitude	36.0907338
Longitude	-96.0303721	Elev Gr		County	TULSA	NS Feet	175
From N/S	S	EW Feet	150	From E/W	E		

7 (within study area)



Details

Well Information

API Well #	3514303760	Name	EYRENBECK	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.088921
Longitude	-96.0303719	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

8 (within study area)

Details

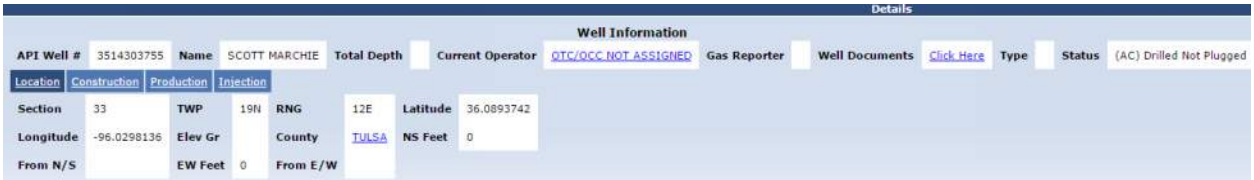
Well Information

API Well #	3514303756	Name	MARCHIE SCOTT	Total Depth		Current Operator	STATE FUND PLUGGING	Gas Reporter		Well Documents	Click Here	Type	OIL	Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.088015
Longitude	-96.03037	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

9 (within study area)



Details

Well Information

API Well #	3514303755	Name	SCOTT MARCHIE	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	33	TWP	19N	RNG	12E	Latitude	36.0893742
Longitude	-96.0298136	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

10 (adjacent to study area)

Details

Well Information

API Well #	3514308388	Name	MCINTOSH	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	27	TWP	19N	RNG	12E	Latitude	36.090302
Longitude	-96.0287001	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

11

Details

Well Information

API Well #	3514303768	Name	SOVERT	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.086677
Longitude	-96.0208808	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

12 (within study area)

Details

Well Information

API Well #	3514308432	Name	HAWKINS B	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.0893964
Longitude	-96.0208808	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

13 (within study area)

Details

Well Information

API Well #	3514303765	Name	SOVERT	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.0889434
Longitude	-96.0169727	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

14

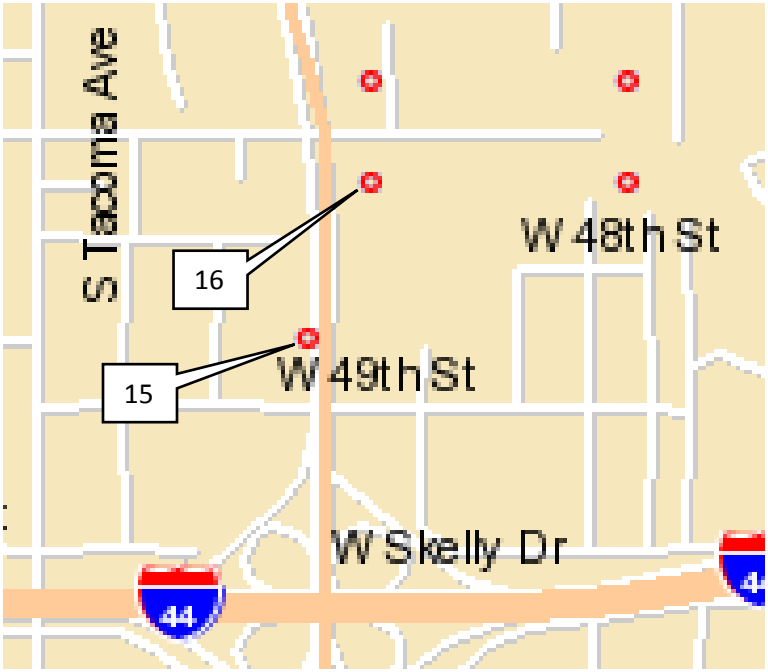
Details

Well Information

API Well #	3514308431	Name	BOHNEFELD	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	34	TWP	19N	RNG	12E	Latitude	36.0862241
Longitude	-96.0158562	Elev Gr		County	TULSA	NS Feet	200
From N/S	S	EW Feet	200	From E/W	E		



15 (within study area)

Details

Well Information

API Well #	3514308380	Name	MCINTOSH	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	26	TWP	19N	RNG	12E	Latitude	36.093495
Longitude	-96.0069259	Elev Gr		County	TULSA	NS Feet	1120
From N/S	S	EW Feet	810	From E/W	E		

16

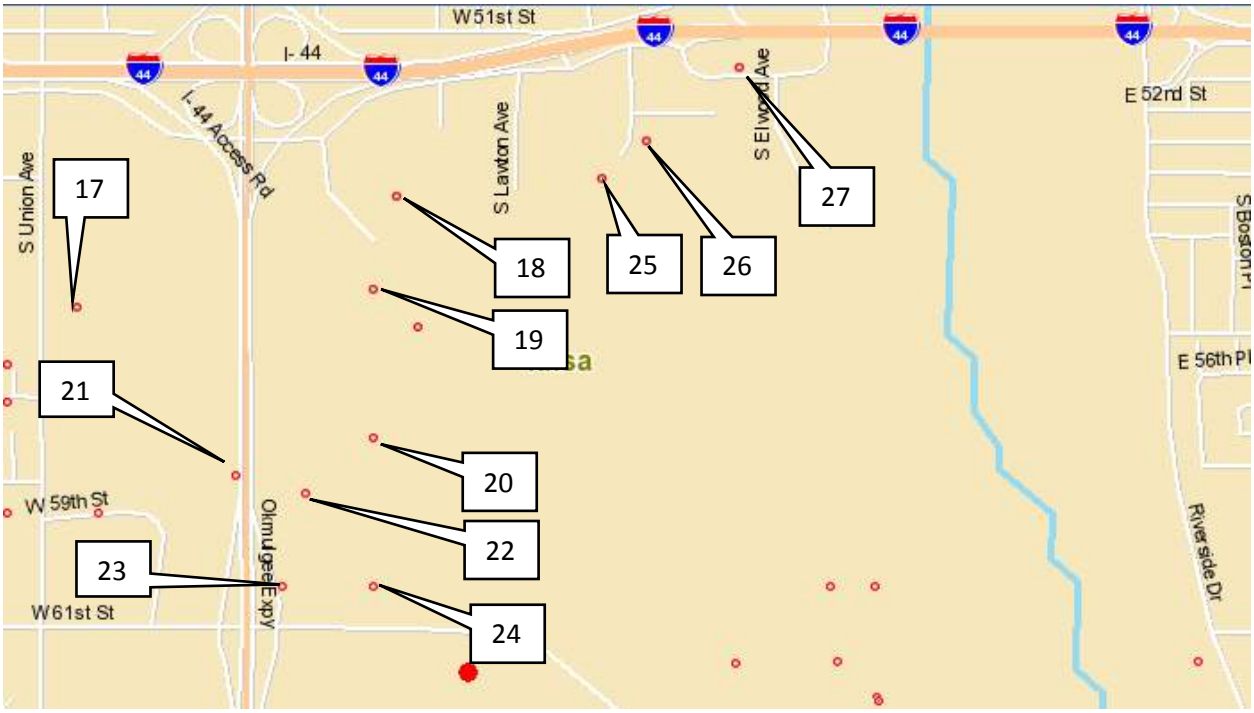
Details

Well Information

API Well #	3514303854	Name	HARDESTY SAM	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	26	TWP	19N	RNG	12E	Latitude	36.0962144
Longitude	-96.005809	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			



17

Details

Well Information

API Well #	3514308444	Name	GARRETT	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0830704
Longitude	-96.0108315	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

18 (within study area)

Details

Well Information

API Well #	3514308445	Name	GARRETT B	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0857906
Longitude	-96.0030153	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

19

Details

Well Information

API Well #	3514303789	Name	REBER	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0835244
Longitude	-96.0035736	Elev Gr		County	TULSA	NS Feet	200
From N/S	S	EW Feet	200	From E/W	E		

20

Details

Well Information

API Well #	3514303783	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0798986
Longitude	-96.0035736	Elev Gr		County	TULSA	NS Feet	1650
From N/S	S	EW Feet	2440	From E/W	W		

21 (within study area)

Details

Well Information

API Well #	3514308448	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0789919
Longitude	-96.0069234	Elev Gr		County	TULSA	NS Feet	200
From N/S	S	EW Feet	200	From E/W	E		

22 (within study area)

Details

Well Information

API Well #	3514303786	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0785388
Longitude	-96.0052485	Elev Gr		County	TULSA	NS Feet	450
From N/S	S	EW Feet	450	From E/W	W		

23 (within study area)

Details

Well Information

API Well #	3514303784	Name	BISHOP	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0762726
Longitude	-96.0058068	Elev Gr		County	TULSA	NS Feet	640
From N/S	S	EW Feet	1960	From E/W	W		

24

Details

Well Information

API Well #	3514303782	Name	BISHOP ANNA	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0762728
Longitude	-96.0035736	Elev Gr		County	TULSA	NS Feet	400
From N/S	S	EW Feet	2049	From E/W	W		

25

Details

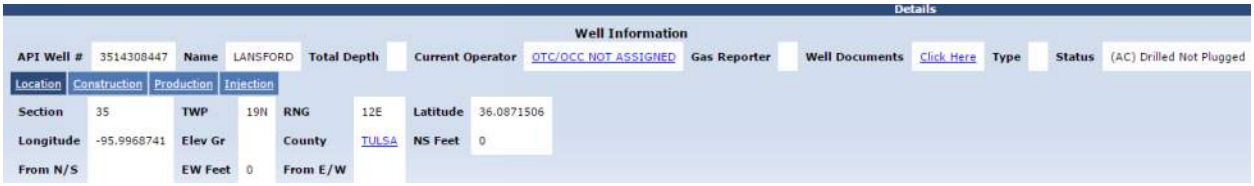
Well Information

API Well #	3514308446	Name	DREW	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0862441
Longitude	-95.9979907	Elev Gr		County	TULSA	NS Feet	1120
From N/S	S	EW Feet	250	From E/W	W		

26 (within study area)



Details

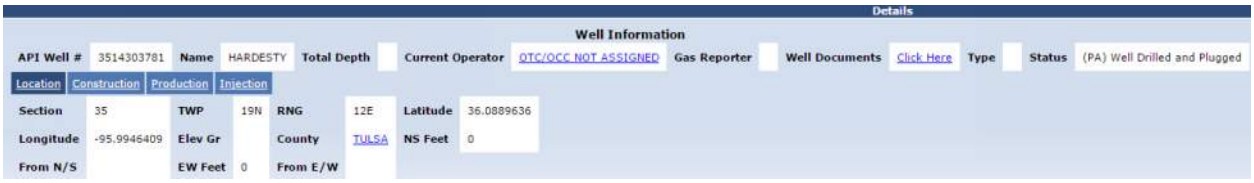
Well Information

API Well #	3514308447	Name	LANSFORD	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(AC) Drilled Not Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0871506
Longitude	-95.9968741	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

27 (within study area)



Details

Well Information

API Well #	3514303781	Name	HARDESTY	Total Depth		Current Operator	OTC/OCC NOT ASSIGNED	Gas Reporter		Well Documents	Click Here	Type		Status	(PA) Well Drilled and Plugged

Location | Construction | Production | Injection

Section	35	TWP	19N	RNG	12E	Latitude	36.0889636
Longitude	-95.9946409	Elev Gr		County	TULSA	NS Feet	0
From N/S		EW Feet	0	From E/W			

comp 1918 RMO

TYPE OR USE BLACK INK
SEE REVERSE FOR INSTRUCTIONS

OKLAHOMA CORPORATION COMMISSION
Oil and Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1003/1003C
(Rev. 2001)

8012491 02

PLUGGING RECORD
OAC 165:10-11-7

WDMS

API NO.	143-03756
OTC PROD. UNIT NO.	
PLUGGING DATE	1-18-08

Well Name/No. Marchic Scott No. 6 Governor's Letters

Location 1/4 SE 1/4 NE 1/4 NE 1/4	Sec 33	Twp 19N	Rge 12E
Ft FSL of 1/4 Sec	Ft FWL of 1/4 Sec	County Tulsa	
Total Depth 608'	Base of Treatable Water 180'	Well Classification Oil	

Locate Well on Grid

OPERATOR

Name	OTC/OCC No. 09999
Address	Phone ( )
City / State	Zip

PIPE RECORD

Size	Run (ft)	Pulled (ft)	
			Conductor
8¼"	8'	0	Surface
			I.C.
			I.C.
6¼"	325'	325'	P.C.
			Liner

PERFORATION DEPTHS

Set 1 -	From	To
Set 2-	From	To
Set 3-	From	To
Set 4-	From	To

Plug	Type of Plug	Hole Size or Pipe Size	Depth	No. Sacks Cement	Slurry Volume	Calculated TOC	Measured Top of Plug If Tagged
1	CEM	8¼"	600'	222	273 cu.ft.	surface	5'
2							
3							
4							
5							

REMARKS

Ran work string to 600' & circulated cement to surface

Reason for Plugging

RECEIVED
OIL & GAS CONSERVATION DIVISION
BRISTOW DISTRICT
JAN 24 2008
OKLAHOMA CORPORATION COMMISSION

CEMENTER CERTIFICATION

I certify that the cement plugs were placed in this well as shown on this report, per O.C.C. instructions. The cementing was performed by me or under my direct supervision. I certify all cementing data is true, correct and complete.

Signature	Date	Name and Title Typed or Printed
Stewart Parrish	1-22-08	Stewart Parrish-cementer

Company Name: P & P Cementing, LLC		Permit No.: 827
Address: P.O. Box 187		Phone: 918-273-2226
City: Nowata	State: Oklahoma	Zip: 74048

OPERATOR CERTIFICATION

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented herein, and that data and facts presented are true, correct, and complete to the best of my knowledge. This covers all well data and information presented herein.

Signature	Date	Name and Title Typed or Printed

CORPORATION COMMISSION USE ONLY

By signing this form, the District Manager has approved the contents thereof as to form only. Said District Manager does not warrant the facts provided by the operator are true or that the operator has properly plugged the described well.

Signature of District Manager

Field Inspector: Jim Waite

TYPE OR USE BLACK INK
SEE REVERSE FOR INSTRUCTIONS

OKLAHOMA CORPORATION COMMISSION
Oil and Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

1002A - no
PI card - no

Form 1003/1003C
(Rev. 2001)

API NO. 015- 00596
OTC PROD. UNIT NO.
PLUGGING DATE 01-10-2008

PLUGGING RECORD
OAC 165:10-11-7

State Funds

Well Name/No. Cement Township No. 1

Location 1/4 SW 1/4 NW 1/4 SE 1/4 | Sec 3 | Twp 05 N | Rge 09 W

1620 Ft FSL of 1/4 Sec | 330 Ft FWL of 1/4 Sec | County Caddo

Total Depth 3454 | Base of Treatable Water 800 | Well Classification Oil / Dry

Locate Well on Grid

OPERATOR

Name State Funds (last known op - G.H. RAY Oil Co.) | OTC/OCC No. 09998
Address | Phone ( )
City | State OK 73935 | Zip

PIPE RECORD

WDMS 1-17-08

Size	Run (ft)	Pulled (ft)	
10 3/4	300'	4'	Conductor
8 5/8	Unknown	4'	Surface
			I.C.
			I.C.
			P.C.
			Liner

PERFORATION DEPTHS

Set 1 - From To
Set 2- From To
Set 3- From To
Set 4- From To

Plug	Type of Plug	Hole Size or Pipe Size	Depth	No. Sacks Cement	Slurry Volume	Calculated TOC	Measured Top of Plug if Tagged
1	Cement	8"	216'	85	14.5 bbl	Sight	Surface
2							
3							
4							
5							

REMARKS

Drilled / washed hole to 198' - Drilled cement from 198' to 216'
Visually inspected cement between 8 5/8 / 10 3/4. Visually inspected cement around 10 3/4

Reason for Plugging

CEMENTER CERTIFICATION

I certify that the cement plugs were placed in this well as shown on this report, per O.C.C. instructions. The cementing was performed by me or under my direct supervision. I certify all cementing data is true, correct and complete.

Signature Joe H Harper | Date 01-14-08 | Name and Title Typed or Printed Joe H Harper Owner
Company Name Quick Plains Well Service | Permit No. 836
Address P.O. Box 695 | Phone 918-273-2166
City Nowata | State OK | Zip 74048

OPERATOR CERTIFICATION

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented herein, and that data and facts presented are ture, correct, and complete to the best of my knowledge. This covers all well data and information presented herein.

Signature Joe H Harper | Date 01-14-08 | Name and Title Typed or Printed Joe H. Harper - Owner - Agent

CORPORATION COMMISSION USE ONLY

By signing this form, the District Manager has approved the contents thereof as to form only. Said District Manager does not warrant the facts provided by the operator are true or that the operator has properly plugged the described well.

Chas Hennessee — Signature of District Manager
Bill Julian — Field Inspector

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1003D
Rev. 2005

AFFIDAVIT OF OLD WELL STATUS

Lease Name/Well No.								API No.	
MCINTOSH 1									143-8380
Location				Sec.		Twp.		Rge.		County	
1/4	1/4	1/4	SW 1/4	26		19N		12E		Tulsa	

The Oklahoma Corporation Commission deems it to be in the best interest of land owners and mineral owners to clear mineral titles where possible for lands where old records show there has been drilled oil and/or gas wells but for which no record has been filed for the plugging of the well. The absence of an official plugging record prevents a clear mineral title in cases of recorded drilling activity.

This document, when properly completed, will serve as a substitute for a plugging record in the Oklahoma Corporation Commission well log record files.

A physical search of the above land was made and the findings are:

[X] (1) No evidence of any well, at the surface

[ ] (2) Evidence of the well and found it to be plugged in accordance with the rules in force at the time of plugging.

[ ] (3) Evidence of unplugged well [ ] Producing [ ] Non-Producing

Attested

12/09/2010 11:06:57 am SigPlus1

4/14/2011

Signature OCC Field Inspector Date

Attested

Signature Individual requesting search Date

Reason for request

District No. 1

Signature OCC District Manager

4/14/2011

Date

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1003D
Rev. 2005

AFFIDAVIT OF OLD WELL STATUS

Lease Name/Well No.								API No.	
MCINTOSH 2									143-8381
Location				Sec.		Twp.		Rge.		County	
1/4	1/4	1/4	SW 1/4	26		19N		12E		Tulsa	

The Oklahoma Corporation Commission deems it to be in the best interest of land owners and mineral owners to clear mineral titles where possible for lands where old records show there has been drilled oil and/or gas wells but for which no record has been filed for the plugging of the well. The absence of an official plugging record prevents a clear mineral title in cases of recorded drilling activity.

This document, when properly completed, will serve as a substitute for a plugging record in the Oklahoma Corporation Commission well log record files.

A physical search of the above land was made and the findings are:

[X] (1) No evidence of any well, at the surface

[ ] (2) Evidence of the well and found it to be plugged in accordance with the rules in force at the time of plugging.

[ ] (3) Evidence of unplugged well [ ] Producing [ ] Non-Producing

Attested

12/09/2010 11:06:57 am SigPlus1

4/14/2011

Signature OCC Field Inspector Date

Attested

Signature Individual requesting search Date

Reason for request

District No. 1

Signature OCC District Manager

4/14/2011

Date

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1003D
Rev. 2005

AFFIDAVIT OF OLD WELL STATUS

Lease Name/Well No.								API No.	
MCINTOSH 3									143-8382
Location				Sec.		Twp.		Rge.		County	
1/4	1/4	1/4	SW 1/4	26		19N		12E		Tulsa	

The Oklahoma Corporation Commission deems it to be in the best interest of land owners and mineral owners to clear mineral titles where possible for lands where old records show there has been drilled oil and/or gas wells but for which no record has been filed for the plugging of the well. The absence of an official plugging record prevents a clear mineral title in cases of recorded drilling activity.

This document, when properly completed, will serve as a substitute for a plugging record in the Oklahoma Corporation Commission well log record files.

A physical search of the above land was made and the findings are:

[X] (1) No evidence of any well, at the surface

[ ] (2) Evidence of the well and found it to be plugged in accordance with the rules in force at the time of plugging.

[ ] (3) Evidence of unplugged well [ ] Producing [ ] Non-Producing

Attested

L White

12/09/2010 11:06:57 am SigPlus1

Signature OCC Field Inspector — Date 4/14/2011

Attested

Signature Individual requesting search — Date

Reason for request

District No. 1

Terry Thoms

Signature OCC District Manager — Date 4/14/2011

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1003D
Rev. 2005

AFFIDAVIT OF OLD WELL STATUS

Lease Name/Well No.								API No.	
MCINTOSH 4									143-8383
Location				Sec.		Twp.		Rge.		County	
1/4	1/4	1/4	SW 1/4	26		19N		12E		Tulsa	

The Oklahoma Corporation Commission deems it to be in the best interest of land owners and mineral owners to clear mineral titles where possible for lands where old records show there has been drilled oil and/or gas wells but for which no record has been filed for the plugging of the well. The absence of an official plugging record prevents a clear mineral title in cases of recorded drilling activity.

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[ ] (3) Evidence of unplugged well [ ] Producing [ ] Non-Producing

Attested

12/09/2010 11:06:57 am SigPlus1

4/14/2011

Signature OCC Field Inspector Date

Attested

Signature Individual requesting search Date

Reason for request

District No. 1

Signature OCC District Manager

4/14/2011

Date

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1003D
Rev. 2005

AFFIDAVIT OF OLD WELL STATUS

Lease Name/Well No.								API No.	
MCINTOSH 5									143-8384
Location				Sec.		Twp.		Rge.		County	
1/4	1/4	1/4	SW 1/4	26		19N		12E		Tulsa	

The Oklahoma Corporation Commission deems it to be in the best interest of land owners and mineral owners to clear mineral titles where possible for lands where old records show there has been drilled oil and/or gas wells but for which no record has been filed for the plugging of the well. The absence of an official plugging record prevents a clear mineral title in cases of recorded drilling activity.

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A physical search of the above land was made and the findings are:

[X] (1) No evidence of any well, at the surface

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[ ] (3) Evidence of unplugged well [ ] Producing [ ] Non-Producing

Attested

12/09/2010 11:06:57 am SigPlus1

4/14/2011

Signature OCC Field Inspector Date

Attested

Signature Individual requesting search Date

Reason for request

District No. 1

Signature OCC District Manager

4/14/2011

Date

Drill

110013

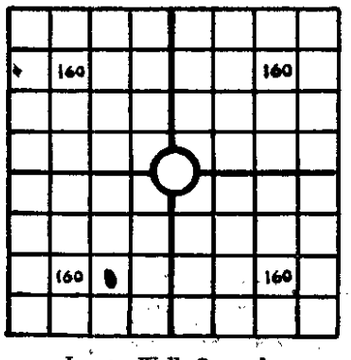
640 Acres

8 N 0 0 0 0 1 0 0 3 4

WELL RECORD

Form 1002

Mail to Corporation Commission, Oklahoma City, Oklahoma



Locate Well Correctly

COUNTY Tulsa, SEC. 35, TWP. 19N, RGE. 12E

COMPANY OPERATING A.Pepis

OFFICE ADDRESS P.O. Box 1643, Tulsa

FARM NAME Bishop WELL NO. 4A

DRILLING STARTED Aug., 1939, DRILLING FINISHED Dec. 1939

DATE OF FIRST PRODUCTION Dec. 1939 COMPLETED

WELL LOCATED NW corner NW ¼ SE of SW 450 ¼ ¼, North of South Line and 450 ft. East of West Line of NW SE SW Section

Elevation (Relative to sea level) DERRICK FLOOR GROUND

CHARACTER OF WELL (Oil, gas or dry hole) oil

OIL OR GAS SANDS OR ZONES

	Name	From	To	Name	From	To
1	[redacted] sand			4 Redfork Oil	1339	1352
2	gas sand	894	900	5		
3	oil sand	1220	1240	6		

WATER SANDS

	Name	From	To	Water level	Name	From	To	Water level
1	Lime water	40	45		4			
2					5			
3					6			

CASING RECORD

Size	Wt.	Thds.	Make	Amount Set Ft.	Amount Set In.	Amount Pulled Ft.	Amount Pulled In.	Amount Pulled Size	Amount Pulled Length	Packer Record Depth Set	Packer Record Make
10	20	8		20							
8¼	24	8		305		No pipe pulled out					
6 5/8	17	10		1329							

Liner Record: Amount Kind Top Bottom

CEMENTING AND MUDDING RECORD

Size	Amount Set Ft.	Amount Set In.	Sacks Cement	Chemical Gal.	Chemical Make	Method of Cementing	Amount	Mudding Method	Results (See Note)

NOTE: What method was used to protect sands when outer strings were pulled?

NOTE: Were bottom hole plugs used? If so, state kind, depth set and results obtained

TOOLS USED

Rotary tools were used from feet to feet, and from feet to

Cable tools were used from top feet to bottom feet, and from feet to

Type Rig

PRODUCTION DATA

Prodnction first 24 hours 8 bbls. Gravity 38, Emulsion per cent., Water per cent

Production second 24 hours bbls. Gravity, Emulsion per cent., Water per cent

If gas well, cubic per 24 hours Rock Pressure: Lbs. per square inch

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

A. Pepis

Name and title of representative of company

Subscribed and sworn to before me this 29 day of Dec 193 9

My Commission expires March 15 1941

John Isaac Sharp

Notary Public

110014

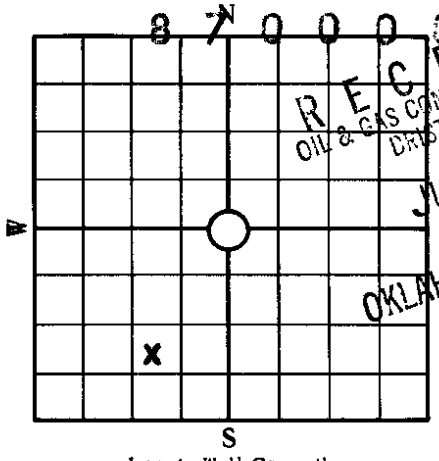
FORMATION RECORD

Give detailed description and thickness of all formations drilled through and contents of sand, whether dry, water, oil or gas

Formation	Top	Bottom	Formation	Top	Bottom
soil	0	6			
sand rock	6	12			
blue shale	12	15	Shot with 20 qts. from 1338½		
sandy shale	15	40	to 1352 with 135 ft. of		
Lime water	40	45	water and oil to tamp.		
blue shale	45	65			
black shale	65	75	Hole bridged after shot		
sandy ~~shale~~ lime	75	188	hard 40 ft. ftom bottom.		
gumbo	188	223			
brown shale	223	241			
white shale	241	302			
Set 8" pipe			305 ft.		
white shale	302	312			
gumbo	312	498			
brown shale	498	520			
light shale	520	550			
blue shale	550	565			
black shale	565	575			
gray shale	575	595			
white shale	595	603			
black shale	603	615			
BIG LIME	615	640			
shale	640	754			
OSWEGO LIME	754	781			
brown shale	781	820			
black shale	820	828			
sandy shale	828	850			
white shale	850	868			
gray shale	868	882			
sandy shale	882	894			
black shale	894	900	show of gas		
~~900~~ LIME-hard	900	907			
black shale	907	919			
sandy shale	919	933			
brown shale	933	953			
shale	953	1020			
brown shale	1020	1030			
blue shale	1030	1054			
black shale	1054	1078			
brown shale	1078	1090			
shale	1090	1135			
LIME SHELL	1135	1143			
Brown shale	1143	1159			
white shale	1159	1174			
grays ~~shale~~	1174	1189			
black shale	1189	1209			
blue shale	1209	1220			
sandy shale	1220	1240	show of oil		
shaley sand	1240	1257			
~~1255~~GAS SAND	1257	1260	Good volume		
Measurement corrected to		1255			
sandy shale	1255	1295			
black sandy shale	1295	1329			
Reduced hole for 6 5/8 pipe					
shaley SAND	1329	1334			
Sandier shale	1334	1339			
SOLID SAND	1339	1349	REDFORK OIL		
Sandy LIME	1349	1352			
SHALE	1352	1360			

Form No. 1003
(1970)

640 Acres



Locate Well Correctly and Outline Lease

P72- 03937

PLUGGING RECORD

OKLAHOMA CORPORATION COMMISSION
Oil and Gas Conservation Division
Oklahoma City, Oklahoma

NOTICE: All questions on this form must be satisfactorily answered and mailed to District Office in duplicate. Within 15 days after plugging is completed.

RECEIVED OIL & GAS CONSERVATION DIVISION BRISTOW DISTRICT JUL 28 1972 OKLAHOMA CORPORATION COMMISSION

Company Operating EARNEST B MILLER JR.
Office Address BOX 1383 TULSA, OKLA.
County TULSA Sec. 35 Twp. 19N Range 12E
Location in Section ____ ¼ NW ¼ SE ¼ SW
Farm Name BISHOP Well No. 4A Field ____
Character of Well (whether oil, gas or dry) SWD

Commenced Plugging 7-17-72 Finished 7-19-72 Total Depth 1360

Was permission obtained from the Corporation Commission or its agents before plugging was commenced YES

Signature of District Manager H. J. McNally Perforations: ____

Name of Field Supervisor GLENN BALL

Name of producing sand RED FORK Depth top ____ Bottom ____

Show depth and thickness of all fresh water, oil and gas formations. Oklahoma Tax Commission Assigned Lease No. ____

SAND OR ZONE RECORDS

CASING RECORDS

Formation	Content	From	To	Size	Put In	Pulled Out
				10	20	
	No 8" IN HOLE			8	305	
				7	1329	587.25

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed:

RAN TUBING TO 1300' PUMPED 40 SKS CEMENT, PULLED TUBING. RIPPED PIPE OFF @ 587, PUMPED 40 SKS CEMENT @ 587 PULLED PIPE OUT, RAN TUBING TO 120', PUMPED 60 SKS 6% GEL CEMENT CIRC TO SURFACE.

Does the above conform strictly to the oil and gas regulations?

The Law requires that adjacent lease, and land-owners be notified, give their names with their addresses below:

None

RECEIVED OIL & GAS CONSERVATION DIVISION AUG 10 1972 OKLAHOMA CORPORATION COMMISSION

RECEIVED OIL & GAS CONSERVATION DIVISION JUL 25 1972 OKLAHOMA CORPORATION COMMISSION

REMARKS: Why plugged? ____ If abandoned oil or gas well, state amount and date of last production ____

Plugging Contractor's Name: UNIVERSAL WELL SERVICE Address: BOX 1252 SAPULPA, OKLA.

Correspondence regarding this well should be addressed to SAME AS ABOVE

Address ____

I, the undersigned, being duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

J W Genger Contractor
Name and title of representative of company

Subscribed and sworn to before me this the 24th day of July, 1972

Commission expires Sept 1975

Jim W Genger
Notary Public

640 Acres

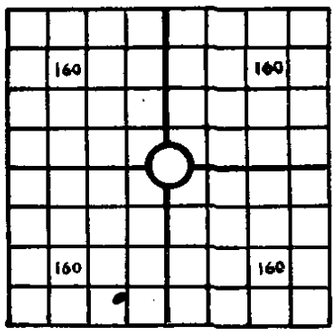
3 7 N 0 0 0 0 1 0 0 1 7 3 4

1100173

Form 1002

WELL RECORD

Mail to Corporation Commission, Oklahoma City, Oklahoma



Locate Well Correctly

COUNTY Tulsa, SEC. 35, TWP. 19N, RGE. 12E

COMPANY OPERATING A.Pepis

OFFICE ADDRESS P.O. Box 1643, Tulsa, Okla.

FARM NAME Bishop WELL NO. 2A

DRILLING STARTED Jan.9, 1939, DRILLING FINISHED March, 1939

DATE OF FIRST PRODUCTION 8 bbls. COMPLETED March 6,'39

WELL LOCATED NE cor. ¼ SW ¼ SE ¼ SW-640', North of South Line and 1960' ft. East of West Line of Quarter Section

Elevation (Relative to sea level) DERRICK FLOOR 785 GROUND 783

CHARACTER OF WELL (Oil, gas or dry hole) oil

OIL OR GAS SANDS OR ZONES

	Name	From	To		Name	From	To
1	Redfork oil	1350	1367	4			
2	Perryman gas	1258	1260	5			
3	Sand gas	900	925	6			

WATER SANDS

	Name	From	To	Water level		Name	From	To	Water level
1		140	200		4				
2		920	925		5				
3		1260	1263		6				

CASING RECORD

Size	Wt.	Thds.	Make	Amount Set Ft.	Amount Set In.	Amount Pulled Ft.	Amount Pulled In.	Amount Pulled Size	Amount Pulled Length	Packer Record Depth Set	Packer Record Make
10	35	8		12		)					
8¼	24	8		259		)	NONE				
6 5/8	17	10		1328		)					
2" tub.4		11½		1366							

Liner Record: Amount _____ Kind _____ Top _____ Bottom _____

CEMENTING AND MUDDING RECORD

Size	Amount Set Ft.	Amount Set In.	Sacks Cement	Chemical Gal.	Chemical Make	Method of Cementing	Amount	Mudding Method	Results (See Note)

NOTE: What method was used to protect sands when outer strings were pulled? _____

NOTE: Were bottom hole plugs used? _____ If so, state kind, depth set and results obtained _____

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____

Cable tools were used from top 0 feet to bottom -1368 feet, and from _____ feet to _____

Type Rig National #2 (Kime Drilling Co.)

PRODUCTION DATA

Production first 24 hours 8 bbls. Gravity 40, Emulsion _____ per cent., Water _____ per cent

Production second 24 hours _____ bbls. Gravity _____, Emulsion _____ per cent., Water _____ per cent

If gas well, cubic per 24 hours _____ Rock Pressure: Lbs. per square inch _____

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

A Pepis

Name and title of representative of company

Sole owner

Subscribed and sworn to before me this 6 day of March, 1939

My Commission expires June 12-1939

[signature]

Notary Public

FORMATION RECORD 110018

Give detailed description and thickness of all formations drilled through and contents of sand, whether dry, water, oil or gas

Formation	Top	Bottom	Formation	Top	Bottom
	0	6	soil		
	6	10	sandy rock		
	10	30	blue shale		
	30	120	white shale		
	120	140	brown shale		
	140	200	sandy lime water		
	200	220	black shale		
	220	250	brown shale		
	250	262	white shale		
	262	300	gray shale		
	300	342	white shale		
	342	382	black shale		
	382	392	brown shale		
	392	560	blue shale		
	560	570	black shale		
	570	600	white shale		
	600	620	black shale		
	620	630	LIME		
	630	650	white shale		
	650	675	brown shale		
	675	685	blue shale		
	685	695	blue shale		
	695	705	white shale		
	705	720	gray shale		
	720	759	blue shale		
	759	789	BIG LIME HARD		
	789	829	black shale		
	829	839	blue shale		
	839	884	white shale		
	884	900	black shale		
	900	925	sandy shale- gas show-water		
	925	950	brown shale		
	950	970	white shale		
	970	985	black shale		
	985	995	sandy shale		
	995	1026	white shale		
	1026	1060	white shale		
	1060	1065	brown shale		
	1065	1120	black shale		
	1120	1123	LIME		
	1123	1145	white shale		
	1145	1165	brown shale		
	1165	1175	black shale		
	1175	1190	white shale		
	1190	1205	brown shale		
	1205	1225	sandy shale		
	1225	1250	brown shale		
	1250	1258	gray shale		
	1258	1260	SAND-gas-water		
	1260	1285	gray shale		
	1285	1325	sandy shale-Reduced hole		
	1325	1350	black sandy shale		
	1350-1363		OIL SAND-Oil topped at 1349		
	1363	1367	SAND-Good show of oil		
	1367	1368	Shale		

Shot with 30 qts. Nitro-glycerine from 1350-1367 with Time bomb tamped with 250 ft. water, after 11½ hours.

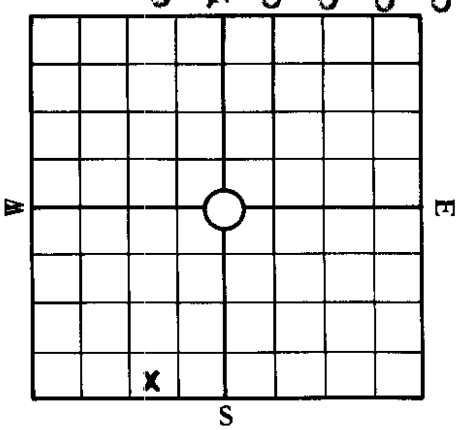
X

P72-04377

. 1003
(1971)

640 Acres

8 7 0 0 0 0 1 0 0 3 4



Locate Well Correctly and Outline Lease

PLUGGING RECORD

(RULE 3-405)

OKLAHOMA CORPORATION COMMISSION

Oil and Gas Conservation Division
Oklahoma City, Oklahoma

NOTICE: All questions on this form must be satisfactorily answered and mailed to applicable Conservation District Office in duplicate and within 15 days after plugging is completed.

Company Operating EARNEST B MILLER JR.

Office Address TULSA OKLA.

County TULSA Sec. 35 Twp. 19N Range 12E

Location in Section SW ¼ SE ¼ SW ¼

Farm Name BISHOP Well No. 2A Field

Character of Well (whether oil, gas or dry) oil

Commenced Plugging 7-21-72 Finished 7-22-72 Total Depth 1368

Was permission obtained from the Corporation Commission or its agents before plugging was commenced YES

Name of CC Field Inspector GLEN BALL Perforations:

Signature of CC District Manager N. J. McNally C. C. District No. 1

Name of producing sand Depth top Bottom

Show depth and thickness of all fresh water, oil and gas formations. Oklahoma Tax Commission Assigned Lease No.

SAND OR ZONE RECORDS CASING RECORDS

Formation	Content	From	To	Size	Put In	Pulled Out

RECEIVED
OIL & GAS CONSERVATION DIVISION
SEP 8 1972
OKLAHOMA CORPORATION COMMISSION

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed:

THIS WELL HAD TUBING AND RAG PACKER IN IT ALL CASING HAD BEEN PULLED, PUMPED 25 SKS CEMENT DOWN TUBING. PULLED TUBING INTO @ 100' PUMPED IN 50 SKS 6% GEL CMENT CIR TO SURFACE.

RECEIVED
OIL & GAS CONSERVATION DIVISION
DRISTOW DISTRICT
SEP 11 1972
OKLAHOMA CORPORATION COMMISSION

RECEIVED
OIL & GAS CONSERVATION DIVISION
SEP 13 1972
OKLAHOMA CORPORATION COMMISSION

RECEIVED
OIL & GAS CONSERVATION DIVISION
SEP 13 1972
OKLAHOMA CORPORATION COMMISSION

Does the above conform strictly to the oil and gas regulations? YES

The Law requires that adjacent lease, and land-owners be notified; give their names with their addresses below:

REMARKS: Why plugged? If abandoned oil or gas well, state amount and date of last production

Plugging Contractor's Name: UNIVERSAL WELL SERVICE Address: BOX 1252 SAPULPA, OKLA.

Correspondence regarding this well should be addressed to UNIVERSAL WELL SERVICE 1252 SAPULPA, OKLA.

Address

I, the undersigned, being duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

J. W. Ginger
Name and title of representative of company

Subscribed and sworn to before me this the 7 day of September, 1972

Commission expires Sept. 1975

Jim W. Ginger
Notary Public

NOTICE OF INTENTION TO Drill

640 Acres

3 7 N 0 0 0 0 1 0 0 6 3 4 40

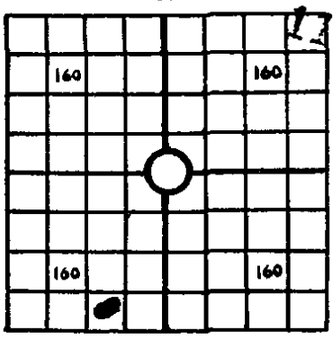
P.R. in

Form 1002

WELL RECORD

Mail to Corporation Commission, Oklahoma City, Oklahoma

110023



Locate Well Correctly

COUNTY Tulsa, SEC. 35, TWP. 19N, RGE. 18E

COMPANY OPERATING A.Pepis

OFFICE ADDRESS P.O. Box 1643 Tulsa, Okla.

FARM NAME Bishop WELL NO. 5A

DRILLING STARTED Jan. 20, 1940 DRILLING FINISHED Feb. 20, 1940

DATE OF FIRST PRODUCTION _____ COMPLETED _____

WELL LOCATED SW ¼ SE ¼ SW ¼ 150, North of South Line and 800 ft. ft. ~~East~~ W of ~~West~~ E Line of Quarter Section

Elevation (Relative to sea level) DERRICK FLOOR dry hole GROUND _____

CHARACTER OF WELL (Oil, gas or dry hole) _____

OIL OR GAS SANDS OR ZONES

	Name	From	To		Name	From	To
1	Redfork	1348	1355	little gas-no oil			
2				5			
3				6			

WATER SANDS

	Name	From	To	Water level		Name	From	To	Water level
1	[illegible]water	920	940		4				
2	water	240	250		5				
3					6				

CASING RECORD

Size	Wt.	Tbds.	Make	Amount Set Ft.	Amount Set In.	Amount Pulled Ft.	Amount Pulled In.	Amount Pulled Size	Amount Pulled Length	Packer Record Depth Set	Packer Record Make
			all removed - ran 300 ft. 8¼ and removed same.								

Liner Record: Amount _____ Kind _____ Top _____ Bottom _____

CEMENTING AND MUDDING RECORD

Size	Amount Set Ft.	Amount Set In.	Sacks Cement	Chemical Gal.	Chemical Make	Method of Cementing	Amount	Mudding Method	Results (See Note)
				NONE					

NOTE: What method was used to protect sands when outer strings were pulled? thin mud filled to top.

NOTE: Were bottom hole plugs used? no If so, state kind, depth set and results obtained _____

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____

Cable tools were used from top feet to bottom National Machine feet to _____

Type Rig _____

PRODUCTION DATA

Production first 24 hours none bbls. Gravity _____, Emulsion _____ per cent., Water _____ per cent

Production second 24 hours _____ bbls. Gravity _____, Emulsion _____ per cent., Water _____ per cent

If gas well, cubic per 24 hours _____ Rock Pressure: Lbs. per square inch _____

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

A Pepis

Name and title of representative of company

Subscribed and sworn to before me this 24 day of Feb. 1940, 193__

My Commission expires March 15 1941

John Isaac Sharp

Notary Public

110024

FORMATION RECORD

Give detailed description and thickness of all formations drilled through and contents of sand, whether dry, water, oil or gas

Formation	Top	Bottom	Formation	Top	Bottom
Ground shals	0	200			
shale gray	200	225			
white shale	225	301			
more white shale	301	348			
blue mud	348	362			
white shale	362	456			
blue shale	456	584			
brown shale	584	604			
black shale	604	619			
BOG LIME	619	624			
Whits shale	624	771			
oswego lime	771	796			
black shale	796	801			
whits shale	801	906			
LIME	906	913			
black shale	913	920			
sandy shale	920	924	water- 3 bblrs.		
sandy shale	924	1076			
white shale	1076	1100			
brown shale	1100	1120			
blue shale	1120	1130			
blue shale	1130	1200			
sandy shale	1200	1231			
shaley SAND	1231	1236	stem greased some-no free oil		
sandy shale	1236	1251			
sandy shale	1251	1256	getting sandier		
sandy shale	1256	1307	blacker and sandier		
sandy shale	1307	1311	black		
shaley SAND	1311	1316	Grittier-small oil show		
shaley SAND	1316	1320	small show of free oil		
sandy shale	1320	1338	getting less sandy		
Reduce hole	1338				
[redacted]					
shaley sand	1338	1340	less sandy		
Solid sand	1340	1348	Hard drilling with fair showing of gas which did not hold up-No oil		
Sandy Lime	1348	1360			
Shale	1360	1504			
Hole began to cavs badly with white shale Plugged.					

NOTICE OF INTENTION TO Plug

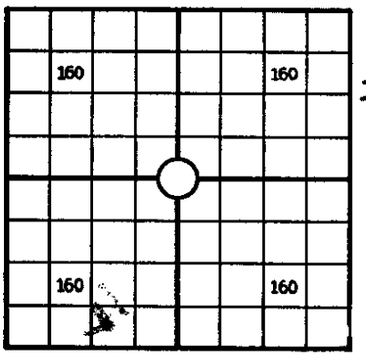
RECEIVED

8 7 0 0 0 1 2 0 2 8-40

W.R. in

PLUGGING RECORD 311173

MAIL TO CORPORATION COMMISSION
Oil and Gas Conservation Department
Oklahoma City, Oklahoma



LOCATE WELL CORRECTLY

SW SE SW

NOTICE: All questions on this form must be satisfactorily answered.

Company Operating A.Pepis

Office Address P.O. Box 1643 Tulsa, Okla.

County Tulsa Sec. 35 Twp. 19N Range 12 E

Farm Name Bishop Well No. 5A Field

Character of Well (whether oil, gas or dry) DRY

Commenced Plugging Feb. 23 Finished Feb. 25, 1940 Total Depth 1504

Was permission obtained from the Corporation Commission or its agents before plugging was commenced? yes

Name of Conservation Officer who supervised plugging of this well

Name of producing sand Redfork Depth top 1348, Bottom 1355

Show depth and thickness of all fresh water, oil and gas formations.

SAND OR ZONE RECORDS				CASING RECORDS		
Formation	Content	From	To	Size	Put In	Pulled Out
	New well just drilled-300 ft. of 8¼ casing used, but pulled out.					

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed:

Filled up with mud from bottom to top-mud taken from fresh slush pit.

Does the above conform strictly to the oil and gas regulations? yes

The Law requires that adjacent lease, royalty and land-owners be notified; give their names with their address below:

REMARKS: Why plugged? If abandoned oil or gas well, state amount and date of last production

Dry hole just completed.

Correspondence regarding this well should be addressed to Same as above

Address P.O. Box 1643, Tulsa, Okla.

I, the undersigned, being first duly sworn upon oath, stats that this well record is true, correct and complete according to the records of this office and to the best of myknowledge and belief.

A Pepis
Name and title of representative of company

Subscribed and sworn to before me this the 24 day of Feb, 1940

My Commission expires March 15 1941

John Isaac Sharp
Notary Public

8 7 0 0 0 0 1 0 0 3 4

341172

FORM 1003—10ME-19

Corporation Commission of Oklahoma

PLUGGING RECORD

County Tulsa Company Dominion Oil Corp. of Okla.

Farm Hardesty Section 35 Township 19 Range 12 Well No. 1.

Character of Well (whether it was Oil or Gas or Dry) DRY

Total depth 2130 feet. Top of each producing sand Oswego 735, Sand 1078, Sand 1520, Sand 1802 and 2093. feet

Was the well filled with mud laden fluid according to regulations of the Corporation Commission? YES

Was Well shot? Yes Show all shoulders left for casing, depth of each, and size of casing used, size and kind of plugs used, and depth placed. Also amount of cement and rock.

Shoulders at 18 ft., 200 ft., 1519 ft., and 1657 ft.

12 1/2 in., 10 in., 8 1/4 in., and 6 5/8 in. casing

Show depth found and thickness of all fresh water, oil and gas formations.

25 - 35 fresh water
460 - 465 little gas
600 - 628 gas
735 - 745 Oswego sand
1070 -1078 gas & oil at 1075
1078 - 1115 gas at 1090
1520 - 1525 gas 5,000 ft.
2093 - 2130 sand - dry

The names of adjacent lease, royalty and land-owners with their address in each instance is as follows:

Markham, et al., - Tulsa, Oklahoma

O. K. Eysenbach - " "

C. Z. Cook - " "

Date well was plugged December 9, 1922.

Conservation Officer - J.J.Gouy

O. V. Borgwald
Representative of Company.

Correspondence regarding this well should be addressed to Name Dominion Oil Corp. of Okla.,

Address P.O.Box #193, Sand Springs, Okla.

I, O. V. Borgwald being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

O. V. Borgwald

Subscribed and sworn to before me this 19 day of April 1924

Notary Public.

My Commission expires 1/12/25 1925

8 7 0 0 0 0 1 0 0 3 4

110028

Form 1002—50M-2-21

WELL RECORD

Mail to Corporation Commission, Oklahoma City, Okla.

Company Dominion Oil Corp. of Okla. Address Sand Springs, Okla.

County Creek Farm Hardesty Section 35 Township 19 Range 12 Well No. 1

Drilling Commenced July 3rd, 1922 Drilling Completed October 28th, 1922

Correspondence regarding this well should be sent to Name C.V. Borgwald Address Sand Springs

CASING RECORD

SIZE	PUT IN WELL FT.	PUT IN WELL IN.	PULLED OUT FT.	PULLED OUT IN.	LEFT IN WELL FT.	LEFT IN WELL IN.	PACKERS AND SHOES
18½	18	-	18	-			
10	200	-			200	-	
8¼	1519	-	1519	-			
6	1657	-	1657	-			

Character of well

Oil well, initial production

Gas well, rock pressure Volume Wet or Dry

Elevation above sea level at top of casing

Location of well in Section:

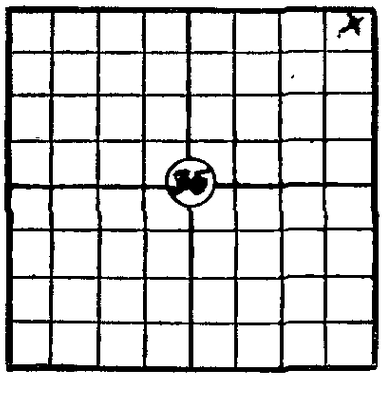
Northeast Quarter of the

Northeast Quarter.

General Remarks:

Spot Well Correctly

640 Acres



FORMATION RECORD

Show all formations, especially all sands and character and contents thereof.

FORMATIONS	TOP	BOTTOM	REMARKS
Soil Black	0	6	
Clay Yellow	6	20	
Gravel	20	25	
Sand	25	35	Water
Shale Dark	35	100	
Slate White	100	170	
Sand-Water	170	175	3 bailers
Slate White	175	380	
Slate Dark	380	435	
Lime	435	445	
Shale White	445	460	
Sand White	460	465	Little gas
Shale White	465	590	
Lime "	590	595	
Shale "	595	600	
Lime	600	628	Gas
Shale Gray	628	735	
Lime Dark	735	745	Oswego
Slate Black	745	750	
Lime	750	760	
Slate White	760	795	
Shale Gray	795	880	
Slate Black	880	960	
Shale White	960	990	
" Brown	990	1065	
Lime White	1065	1070	
Slate White	1070	1078	gas & showing oil at 1075
Sand Brokem	1078	1115	gas at 1090
Slate Black	1115	1120	
Lime	1120	1125	Water
Shale Gray	1125	1130	
Lime Black	1130	1135	
Slate "	1135	1150	
Lime Black	1150	1155	
Sandy Shale Light	1155	1165	water
Slate White	1165	1250	
Slate Gray	1250	1275	
Slate White	1275	1320	
Lime Dark	1320	1325	

FORMATIONS	TOP	BOTTOM	REMARKS
Slate Gray	1325	1480	
Slate Black	1480	1519	
Sand Shell	1519	1520	Set 1519' of 8¼" 32# casing
Sand	1520	1525	Gas 5 M. gas

I, EDWIN A. CRAIG being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

Edwin A. Craig

Representative of Company

Subscribed and sworn to before me this the 29th day of August 1923.

Chas. W. Borgwald

Notary Public

My commission expires April 27th, 1924.

3700001034

Light Shale	1525	1575	
Dark Shale	1575	1700	
Lime Shell	1700	1707	
Slate Black	1707	1802	
Sand	1802	1820	
Lime Sandy	1820	1868	
Lime	1868	2018	
Slate	2018	2053	
Lime	2053	2093	
Sand	2093	2130	Hole Full water
	11029		

Natural Resources

6450 South Lewis
Suite 300
Tulsa, OK 74136

TEL 918.250.5922
FAX 918.858.0107

www.GarverUSA.com

Section 9
Natural Resources Summary
I-44 Corridor from I-244 Junction East to the Arkansas River
Tulsa County JP 32728(04)

9.1 Protected Species and Habitat

Federally-listed threatened, endangered, and candidate species listed by the US Fish and Wildlife Service (USFWS) for the study area in Tulsa County include: the Interior Least Tern, Piping Plover, Red Knot, American Burying Beetle, and Northern Long-eared Bat. No designated critical habitat for these species is located within the study area. Refer to the USFWS species list located in this section.

The study area falls within the Upper Arkansas River watershed (a HUC10 watershed). The Upper Arkansas River watershed is within a federally-listed aquatic dependent species watershed for the Interior Least Tern. Additionally, the study area contains the Arkansas River, which is an occupied water body for the Interior Least Tern. Refer to the USFWS federally-listed aquatic dependent species watershed map located in this section.

Communication with Todd Fagin of the Oklahoma Natural Heritage Inventory revealed the occurrence of the Bald Eagle (*Haliaeetus leucocephalus*), a federally protected species, within the vicinity of the project location. Specifically, the Bald Eagle was listed by the ONHI database for 7 occurrences, one each in Sections 1 and 12 of Township18N Range12E; Sections 7 and 18 of Township18N Range13E; and Sections 14, 25, and 26 of Township19N Range12E in Tulsa County. Additionally, the Oklahoma Natural Heritage Inventory revealed the occurrence of the Interior least tern (*Sternula antillarum athalassos*), a federally listed endangered species, within the vicinity of the project location. Specifically, the Interior Least Tern was listed by the ONHI database for 4 occurrences, one each in Section 18 of Township18N Range13E; and Sections 13, 25, and 36 of Township19N Range12E in Tulsa County.

9.2 Jurisdictional Wetlands

Perennial, jurisdictional waters in the study area include the Arkansas River and Mooser Creek (although the western end of Mooser Creek is mapped as intermittent). In addition, 1 USGS-mapped intermittent stream and 2 ephemeral

to intermittent watercourses, which are potentially jurisdictional, occur within the study area and include unnamed tributaries to Mooser Creek.

According to the National Wetlands Inventory (NWI), 1 PFO1/PSS1 (Palustrine, Forested/Scrub-Shrub, Broad-Leaved Deciduous) wetland, 2 linear PFO1A (Palustrine, Forested, Broad-Leaved Deciduous, Temporarily Flooded) wetlands, and 1 PUBHh (Palustrine, Unconsolidated Bottom, Permanently Flooded, Diked/Impounded) wetland are present in the study area (refer to the NWI map included in this section). The two linear PFO1A wetlands could not be field verified. However, field reconnaissance determined that the single PFO1/PSS1 wetland is separated into two wetlands (one on each side of I-44) and Garver considers each of them to be potentially jurisdictional due to their hydrologic connections to the Arkansas River. The NWI-mapped PUBHh wetland was determined through the site investigation to be no longer present within the study area, as it has been replaced by Mooser Creek. Refer to the composite maps in Section 1 for the locations of the potentially jurisdictional waters and wetland discussed above.

Field reconnaissance identified five additional wetland areas; however, three of these are not considered jurisdictional as they appear isolated and lack surface hydrology connections to USGS-mapped streams. One potentially jurisdictional wetland is a small (approximately 0.11 acre) scrub-shrub wetland in the study area. This wetland is located southwest of the Union Avenue Bridge between I-44 and W Skelly Drive. This wetland is potentially jurisdictional due to its hydrologic connection to one of the ephemeral to intermittent streams that drains into Mooser Creek. The second potentially jurisdictional wetland is a small (approximately 0.03 acre) emergent wetland in the study area. This wetland is located between I-44 and the southern I-44 Access Road. This wetland is potentially jurisdictional due to its hydrologic connection to the Arkansas River. These two additional wetlands are shown in Section 1.

9.3 Soils

The NRCS soils map for the study area is included in this section. According to NRCS soils information, 3.4% (18.3 acres) of the study area is comprised of hydric soil (Radley silt loam, 0-1 percent slopes, frequently flooded). This hydric soil occurs along the banks of Mooser Creek south of I-44.

9.4 Critical Resource Waters, Section 10 Waters, Scenic Rivers and Arbuckle Simpson Aquifer

There are no critical resource waters, Section 10 waters, or scenic rivers in the study area. The Arkansas River, which is located at the east end of the study

area, is listed as a Section 10 water in Muskogee County, but not Tulsa County. The Arbuckle-Simpson Aquifer is not located within the study area.

9.5 Impaired Waters

Mooser Creek is listed in Oklahoma's 2014 303(d) list of impaired waters. Mooser Creek (Water Body ID OK120420010070_00) is impaired for *Escherichia coli* and for warm water aquatic habitat. No Total Maximum Daily Load (TMDL) values have been established for Mooser Creek. The Arkansas River listed in Oklahoma's 2014 303(d) list of impaired waters. The Arkansas River (Water Body ID OK120420010010_00 and OK120420010010_10) is impaired for *Enterococcus* bacteria, cadmium, and for turbidity. The Total Maximum Daily Load (TMDL) value for Enterococcus has been established at 35,669 CFU/day for the Arkansas River. This information was obtained from the Oklahoma Department of Environmental Quality (ODEQ) website (http://www.deq.state.ok.us/wqdnew/305b_303d/).

The City of Tulsa has a Phase I MS4 permit. The entire study area occurs within the boundaries of this permit. Additionally, Tulsa County and Tulsa's urban area each have Phase II Small MS4 permits. The reconnaissance study limits do not fall within any areas with special Total maximum Daily Load (TMDL) Requirements. This information was obtained through ODOT's MS4 Areas and Outfalls Web App (http://okdot.maps.arcgis.com/apps/Viewer/index.html?appid=0b5ac581bb764eb4a2e69ca89f9bd5b0) and through ODEQ's Storm Water Program Information website (http://www.deq.state.ok.us/WQDNew/stormwater/).

9.6 Oklahoma Sensitive Waters and Watersheds Harboring Endangered and Threatened Species and Their Critical Habitat of Concern

According to the OKR10 Stormwater General Construction Permit (dated September 13, 2012), Tulsa County does not contain any Oklahoma Aquatic Resources of Concern (ARC) harboring endangered or threatened species or their critical habitat of concern. This information was obtained from the Oklahoma Department of Environmental Quality website (http://www.deq.state.ok.us/WQDnew/stormwater/OKR10Permit_2012_final%20Review_August.pdf).

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Oklahoma Ecological Services Field Office
9014 EAST 21ST STREET
TULSA, OK 74129
PHONE: (918)581-7458 FAX: (918)581-7467
URL: www.fws.gov/southwest/es/Oklahoma/

Consultation Code: 02EKOK00-2016-SLI-2115 September 21, 2016
Event Code: 02EKOK00-2016-E-02389
Project Name: I-44 Corridor from I-244 Junction East to the Arkansas River

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Non-federal entities conducting activities that may result in take of listed species should consider seeking coverage under section 10 of the ESA, either through development of a Habitat Conservation Plan (HCP) or, by becoming a signatory to the General Conservation Plan (GCP) currently under development for the American burying beetle. Each of these mechanisms provides the means for obtaining a permit and coverage for incidental take of listed species during otherwise lawful activities.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit through our Project Review step-wise process http://www.fws.gov/southwest/es/oklahoma/OKESFO%20Permit%20Home.htm.

Attachment

Official Species List

Provided by:

Oklahoma Ecological Services Field Office
9014 EAST 21ST STREET
TULSA, OK 74129
(918) 581-7458
http://www.fws.gov/southwest/es/Oklahoma/

Consultation Code: 02EKOK00-2016-SLI-2115
Event Code: 02EKOK00-2016-E-02389

Project Type: TRANSPORTATION

Project Name: I-44 Corridor from I-244 Junction East to the Arkansas River
Project Description: Data reconnaissance project in Tulsa County for a 900 to 1,500-foot wide study area centered along I-44 beginning at the I-244 Interchange and extending approximately 2.9 miles east to the Arkansas River. Additionally, the study area encompasses approximately 1.4 miles of Highway 75. The project is located within Township 19N Range 12E in Sections 25-28 and 33-36; and within Township 18N Range 12E in Section 2.

Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-96.0052914713719 36.095471484433524, -96.00529169625086 36.09239595610937, -96.00197483684836 36.09238755581411, -96.00197931522159 36.09000111939448, -95.99700212671199 36.09098930292867, -95.98420727033876 36.09095396363564, -95.98421159716813 36.08875608624027, -95.99113239344202 36.08877533985172, -95.99114271130964 36.08712704763696, -96.00188102364997 36.08715662708214, -96.00188161443087 36.08471965478057, -96.00529282149492 36.084733190563384, -96.00529415887685 36.07503873338262, -96.00732446436072 36.07505445731922, -96.00732345791693 36.084741056896355, -96.01236047974034 36.084761076977735, -96.01228092202052 36.0879177329596, -96.03697405295861 36.08799959053819, -96.03505640351885 36.09032524403076, -96.01222160988762 36.090252605719535, -96.01216753688696 36.092413309034235, -96.00732260200544 36.092401271577565, -96.00732262304221 36.09547079219736, -96.0052914713719 36.095471484433524)))

Project Counties: Tulsa, OK

Endangered Species Act Species List

There are a total of 5 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Birds	**Status**	**Has Critical Habitat**	**Condition(s)**
Least tern *(Sterna antillarum)* Population: interior pop.	Endangered		
Piping Plover *(Charadrius melodus)* Population: except Great Lakes watershed	Threatened	Final designated	
Red Knot *(Calidris canutus rufa)* Population: Wherever found	Threatened		
Insects			
American Burying beetle *(Nicrophorus americanus)* Population: Entire	Endangered		
Mammals			
Northern long-eared Bat *(Myotis septentrionalis)* Population: Wherever found	Threatened		

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Appendix A: FWS National Wildlife Refuges and Fish Hatcheries

There are no refuges or fish hatcheries within your project area.

Appendix B: FWS Migratory Birds

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). The MBTA has no otherwise lawful activities. For more information regarding these Acts see:
http://www.fws.gov/birds/policies-and-regulations/laws-legislations/migratory-bird-treaty-act.php
http://www.fws.gov/birds/policies-and-regulations/laws-legislations/bald-and-golden-eagle-protection-act.php

All project proponents are responsible for complying with the appropriate regulations protecting birds when planning and developing a project. To meet these conservation obligations, proponents should identify potential or existing project-related impacts to migratory birds and their habitat and develop and implement conservation measures that avoid, minimize, or compensate for these impacts. The Service's Birds of Conservation Concern (2008) report identifies species, subspecies, and populations of all migratory nongame birds that, without additional conservation actions, are likely to become listed under the Endangered Species Act as amended (16 U.S.C 1531 et seq.).

For information about Birds of Conservation Concern, go to:
http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php

For information about conservation measures that help avoid or minimize impacts to birds, please visit:
http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php

To search and view summaries of year-round bird occurrence data within your project area, go to the Avian Knowledge Network Histogram Tools at:
http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/akn-histogram-tools.php

Migratory birds that may be affected by your project:

There are 25 birds on your migratory bird list. The list may include birds occurring outside this FWS office jurisdiction.

Species Name	Bird of Conservation Concern (BCC)	Seasonal Occurrence in Project Area
Bachman's sparrow *(Aimophila aestivalis)*	Yes	Breeding
Bald eagle *(Haliaeetus leucocephalus)*	Yes	Year-round
Bell's Vireo *(Vireo bellii)*	Yes	Breeding
Dickcissel *(Spiza americana)*	Yes	Breeding
Fox Sparrow *(Passerella liaca)*	Yes	Wintering
Golden eagle *(Aquila chrysaetos)*	Yes	Wintering
Harris's Sparrow *(Zonotrichia querula)*	Yes	Wintering
Henslow's sparrow *(Ammodramus henslowii)*	Yes	Breeding
Hudsonian Godwit *(Limosa haemastica)*	Yes	Migrating
Kentucky Warbler *(Oporornis formosus)*	Yes	Breeding
Le Conte's Sparrow *(Ammodramus leconteii)*	Yes	Wintering
Least bittern *(Ixobrychus exilis hesperis)*	No	Breeding
Least tern *(Sterna antillarum)*	Yes	Breeding
Little Blue Heron *(Egretta caerulea)*	Yes	Breeding
Loggerhead Shrike *(Lanius ludovicianus)*	Yes	Year-round

Mississippi Kite *(Ictinia mississippiensis)*	Yes	Breeding
Orchard Oriole *(Icterus spurius)*	Yes	Breeding
Painted Bunting *(Passerina ciris)*	Yes	Breeding
Prothonotary Warbler *(Protonotaria citrea)*	Yes	Breeding
Red-headed Woodpecker *(Melanerpes erythrocephalus)*	Yes	Year-round
Rufous-crowned Sparrow *(Aimophila ruficeps)*	Yes	Year-round
Rusty Blackbird *(Euphagus carolinus)*	Yes	Wintering
Scissor-tailed Flycatcher *(Tyrannus forficatus)*	Yes	Breeding
Short-eared Owl *(Asio flammeus)*	Yes	Wintering
Swainson's hawk *(Buteo swainsoni)*	Yes	Breeding

Appendix C: NWI Wetlands

The U.S. Fish and Wildlife Service is the principal Federal agency that provides information on the extent and status of wetlands in the U.S., via the National Wetlands Inventory Program (NWI). In addition to impacts to wetlands within your immediate project area, wetlands outside of your project area may need to be considered in any evaluation of project impacts, due to the hydrologic nature of wetlands (for example, project activities may affect local hydrology within, and outside of, your immediate project area). It may be helpful to refer to the USFWS National Wetland Inventory website. The designated FWS office can also assist you. Impacts to wetlands and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes. Project Proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate U.S. Army Corps of Engineers District.

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery and/or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Exclusions - Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Precautions - Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of

this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

The following NWI Wetland types intersect your project area in one or more locations. To understand the NWI Classification Code, see https://ecos.fws.gov/ipac/wetlands/decoder. To view the National Wetlands Inventory on a map go to http://www.fws.gov/wetlands/Data/Mapper.html.

Wetland Types	NWI Classification Code
Freshwater Forested/Shrub Wetland	PFO1/SS1A
Freshwater Pond	PUBHh
Riverine	R2USC
Riverine	R2UBH

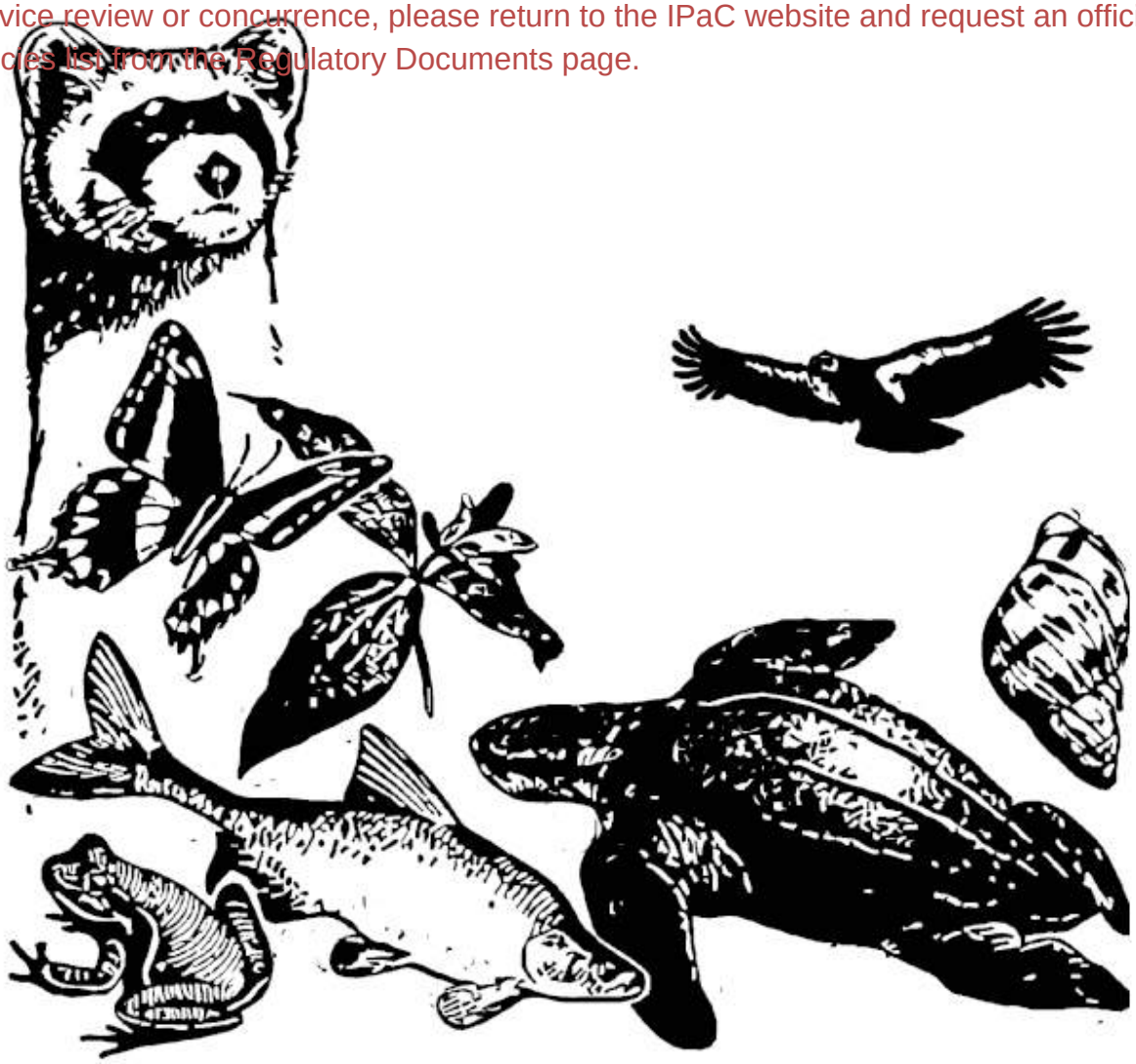
U.S. Fish & Wildlife Service

I-44 Corridor from I-244 Junction East to the Arkansas River

IPaC Trust Resources Report

Generated September 21, 2016 10:34 AM MDT, IPaC v3.0.9

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



IPaC - Information for Planning and Conservation (https://ecos.fws.gov/ipac/): A project planning tool to help streamline the U.S. Fish & Wildlife Service environmental review process.

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U.S. Fish & Wildlife Service

IPaC Trust Resources Report

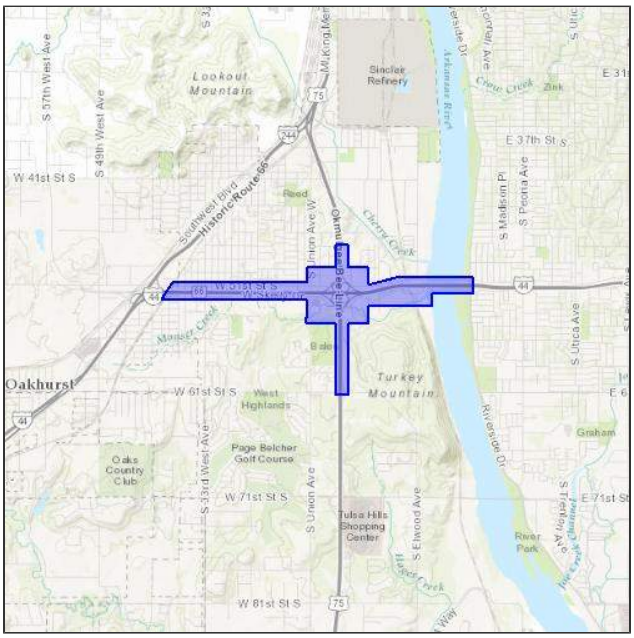
NAME

I-44 Corridor from I-244 Junction East to the Arkansas River

LOCATION

Tulsa County, Oklahoma

DESCRIPTION



The project is located within Township 19N Range 12E in Sections 25-28 and 33-36; and within Township 18N Range 12E in Section 2.

IPAC LINK

https://ecos.fws.gov/ipac/project/A3LME-FR35Z-EYTP6-OPPXZ-FFBF4M

U.S. Fish & Wildlife Service Contact Information

Trust resources in this location are managed by:

Oklahoma Ecological Services Field Office
9014 East 21st Street
Tulsa, OK 74129-1428
(918) 581-7458

Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the Endangered Species Program of the U.S. Fish & Wildlife Service.

This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Documents section in IPaC or from the local field office directly.

The list of species below are those that may occur or could potentially be affected by activities in this location:

Birds

Least Tern Sterna antillarum — Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B07N

Piping Plover Charadrius melodus — Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B079

Red Knot Calidris canutus rufa — Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0DM

Insects

American Burying Beetle Nicrophorus americanus — Endangered

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=I028

Mammals

Northern Long-eared Bat Myotis septentrionalis — Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=A0JE

Critical Habitats

There are no critical habitats in this location

Migratory Birds

Birds are protected by the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act.

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish & Wildlife Service.[1] There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

---

1. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern
  http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds
  http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data
  http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The following species of migratory birds could potentially be affected by activities in this location:

Bachman's Sparrow Aimophila aestivalis — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B07F

Bald Eagle Haliaeetus leucocephalus — Bird of conservation concern
Season: Year-round
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008

Bell's Vireo Vireo bellii — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0JX

Dickcissel Spiza americana — Bird of conservation concern
Season: Breeding

Fox Sparrow Passerella iliaca — Bird of conservation concern
Season: Wintering

Golden Eagle Aquila chrysaetos — Bird of conservation concern
Season: Wintering
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0DV

Harris's Sparrow Zonotrichia querula — Bird of conservation concern
Season: Wintering

Henslow's Sparrow Ammodramus henslowii — Bird of conservation concern
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B09D

Hudsonian Godwit Limosa haemastica — Bird of conservation concern
Season: Migrating

Kentucky Warbler Oporornis formosus — Bird of conservation concern
Season: Breeding

Le Conte's Sparrow Ammodramus leconteii — Bird of conservation concern
Season: Wintering

Least Bittern Ixobrychus exilis
Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B092

Least Tern Sterna antillarum — Bird of conservation concern
Season: Breeding

Little Blue Heron Egretta caerulea — Bird of conservation concern
Season: Breeding

Loggerhead Shrike Lanius ludovicianus — Bird of conservation concern
Season: Year-round
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FY

Mississippi Kite Ictinia mississippiensis — Bird of conservation concern
Season: Breeding

Orchard Oriole Icterus spurius — Bird of conservation concern
Season: Breeding

Painted Bunting Passerina ciris — Bird of conservation concern
Season: Breeding

Prothonotary Warbler Protonotaria citrea — Bird of conservation concern
Season: Breeding

Red-headed Woodpecker Melanerpes erythrocephalus — Bird of conservation concern
Season: Year-round

Rufous-crowned Sparrow Aimophila ruficeps — Bird of conservation concern
Season: Year-round
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0MX

Rusty Blackbird Euphagus carolinus — Bird of conservation concern
Season: Wintering

Scissor-tailed Flycatcher Tyrannus forficatus — Bird of conservation concern
Season: Breeding

Short-eared Owl Asio flammeus — Bird of conservation concern

Season: Wintering
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD

Swainson's Hawk Buteo swainsoni — Bird of conservation concern

Season: Breeding
http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B070

Wildlife refuges and fish hatcheries

There are no refuges or fish hatcheries in this location

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

This location overlaps all or part of the following wetlands:

Freshwater Forested/shrub Wetland

PFO1/SS1A

Freshwater Pond

PUBHh

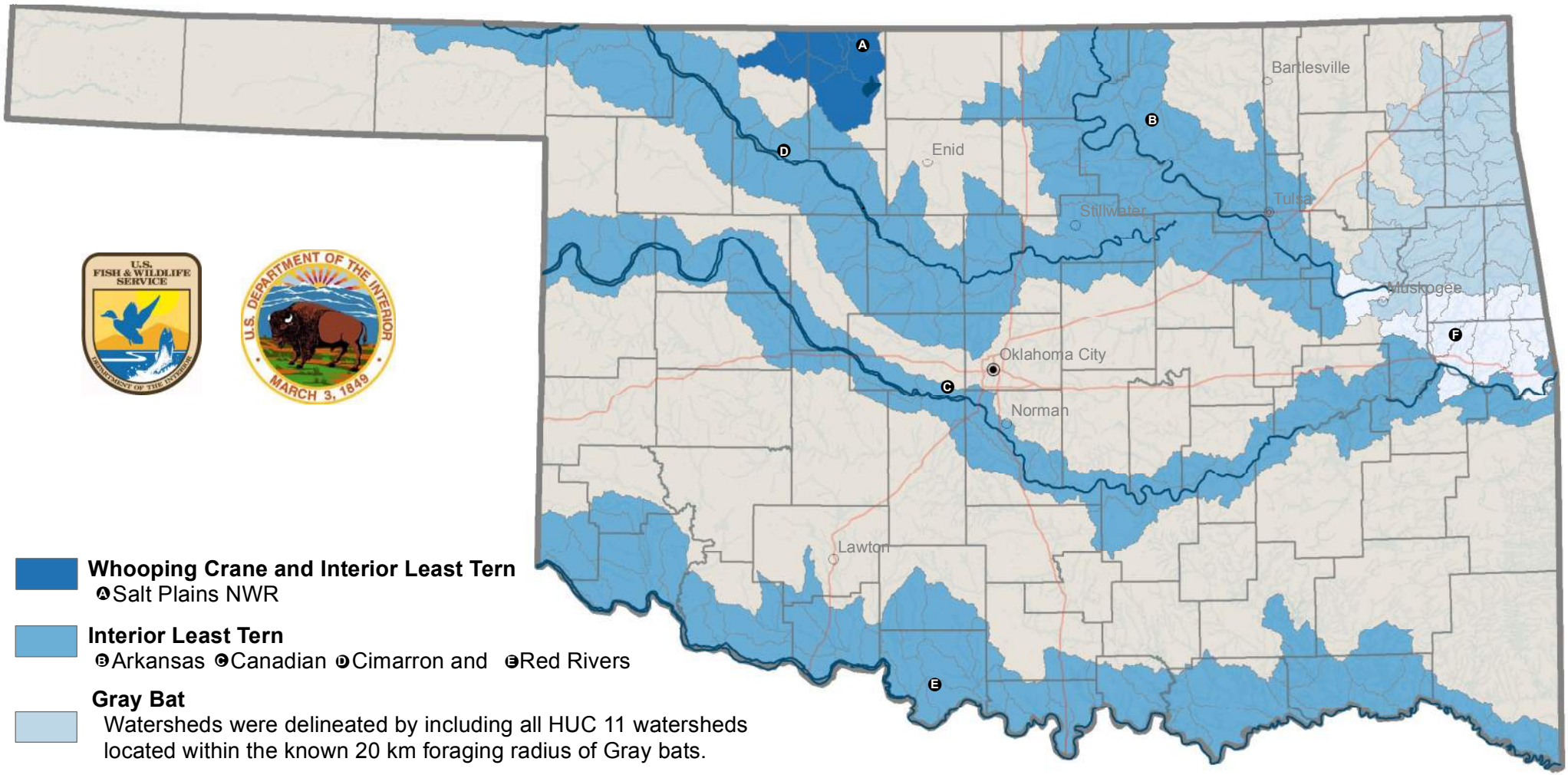
Riverine

R2UBH
R2USC

A full description for each wetland code can be found at the National Wetlands Inventory website: http://107.20.228.18/decoders/wetlands.aspx

Federally-Listed Aquatic Dependent Species Watersheds of Oklahoma

These watersheds were delineated using 11 digit Hydrologic Unit Code (HUC) watersheds. All watersheds adjacent to water bodies occupied by federally-listed species are included in the delineation, as well as those 11 digit HUC watersheds within 10 miles of the occupied water body. Please note that not all 11 digit HUC watersheds that feed into sensitive occupied water bodies are included in this delineation and effects to those watersheds outside of this delineation could impact sensitive water bodies.



Whooping Crane and Interior Least Tern
Ⓐ Salt Plains NWR

Interior Least Tern
Ⓑ Arkansas Ⓒ Canadian Ⓓ Cimarron and Ⓔ Red Rivers

Gray Bat
Watersheds were delineated by including all HUC 11 watersheds located within the known 20 km foraging radius of Gray bats.

Interior Least Tern and Gray Bat
Ⓕ Canadian River (ILT) and HUC 11 Watersheds (GB)

Water Bodies Occupied by Federally-Listed Species

N W E S

0 25 50 100 Miles

Federally-Listed Aquatic Dependent Species Watersheds of Oklahoma
11 Digit Hydrologic Unit Codes

Interior Least Tern

11050003080	11090204080	11130101050	11140101040
11060001030	11100302090	11130101060	11140101060
11060001040	11110101010	11130101070	11140102030
11060001050	11110101020	11130102010	11140103050
11060002040	11110101030	11130102020	11140103060
11060003030	11110101040	11130102030	11140104050
11060003040	11110101050	11130201010	11140105070
11060004010	11110101060	11130201020	11140105080
11060004020	11110102020	11130201030	11140106020
11060004030	11110102050	11130201040	11140106040
11060004040	11110102060	11130201050	11140106050
11060004100	11110102070	11130201060	
11060004110	11110103110	11130201070	
11060005080	11110104020	11130201090	
11060006020	11110104030	11130201100	
11060006030	11110104040	11130202050	
11060006040	11110104050	11130203030	
11060006050	11110104070	11130203040	
11060006060	11110104080	11130203050	
11060006080	11110105110	11130203070	
11060006090	11120105060	11130208040	
11060006100	11120202050	11130208050	
11060006110	11120202060	11130210010	
11070107020	11120202070	11130210020	
11070107030	11120303090	11130304050	
11070107040	11130101030	11140101010	
11090204070	11130101040	11140101020	

Gray Bat

11070207190	11110102020
11070105040	11110102070
11070206020	11110103050
11070206030	11110103060
11070206040	11110103080
11070206050	11110103090
11070206060	11110103100
11070208070	11110103110
11070209020	11110104020
11070209030	11110104030
11070209040	11110104050
11070209050	11110104070
11070209060	
11070209070	
11070209100	
11070209110	
11070209120	
11110101060	
11110102010	

Whooping Crane

11060002040
11060003030
11060003040
11060004010
11060004020
11060004030
11060004040

OBS Ref. 2016-423-BUS-GAR

Dear Ms. Schmidt, Sep. 21, 2016

We have reviewed occurrence information on federal and state threatened, endangered or candidate species, as well as non-regulatory rare species and ecological systems of importance currently in the Oklahoma Natural Heritage Inventory database for the following location you provided:

Sec. 2-T18N-R12E and Sec. 25, 26, 27, 28, 33, 34, 35, and 36-T19N-R19N-R12E, Tulsa County

We found 11 occurrence(s) of relevant species within the vicinity of the project location as described.

Bald Eagle (*Haliaeetus leucocephalus*), a federally protected species, seven occurrences, one each in Sec. 1 and 12-T18N-R12E, Sec. 7 and 18-T18N-R13E, and Sec. 14, 25, and 26-T19N-R12E, Tulsa County.

Interior Least Tern (*Sternula antillarum athalassos*), a federally listed endangered species, four occurrences, one each in Sec. 18-T18N-R13E and Sec. 13, 25, and 36-T19N-R12E, Tulsa County.

Additionally, absence from our database does not preclude such species from occurring in the area.

If you have any questions about this response, please send me an email, or call us at the number given below.

Although not specific to your project, you may find the following links helpful.

ONHI, guide to ranking codes for endangered and threatened species:
http://vmpincel.ou.edu/heritage/ranking_guide.html

Information regarding the Oklahoma Natural Areas Registry:
http://www.oknaturalheritage.ou.edu/registry_faq.htm

Todd Fagin
Oklahoma Natural Heritage Inventory
(405) 325-4700
tfagin@ou.edu

Study Boundary
County Line
Interstate
Freshwater Forested/Shrub Wetland
Highway
Freshwater Pond
Section Line
Riverine

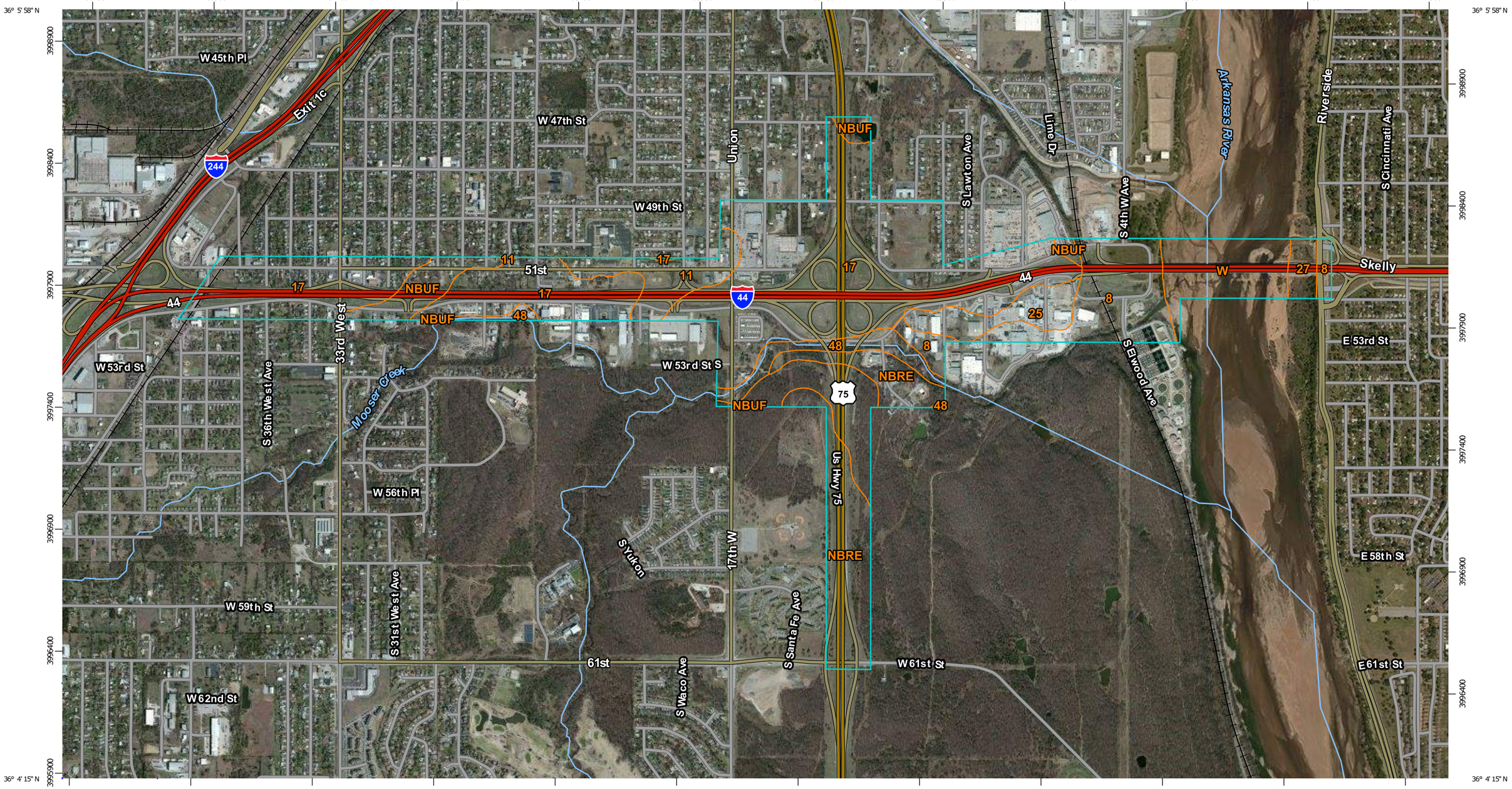
0 500 1,000 2,000 3,000 4,000 Feet

N

W. 46th St. (EW 063.5)
W. 51st St. (EW 064)
W. 61st St. (EW 065)
S. 33rd W. Ave. (NS 392)
S. Union Ave. (NS 393)
S. Elwood Ave. (NS 394)
Riverside Dr.
ARKANSAS RIVER
Study Boundary
TULSA COUNTY
CREEK COUNTY
28-T19N-R12E
27-T19N-R12E
26-T19N-R12E
25-T19N-R12E
33-T19N-R12E
34-T19N-R12E
35-T19N-R12E
36-T19N-R12E
4-T18N-R12E
3-T18N-R12E
2-T18N-R12E
244
44
75

Oklahoma Department of Transportation
National Wetland Inventory (NWI) Map
Tulsa County
JP 32728(04) I-44 Corridor from I-244 Interchange East to the Arkansas River

Soil Map—Tulsa County, Oklahoma
(CPS_Study_Area_Polygon)



Map Scale: 1:15,400 if printed on B landscape (17" x 11") sheet.

N

Meters
0 200 400 800 1200

Feet
0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Tulsa County, Oklahoma
Survey Area Data: Version 10, Sep 11, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 10, 2011—Jul 20, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Tulsa County, Oklahoma (OK143)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
8	Choska-Severn-Urban land complex, 0 to 1 percent slopes, rarely flooded	54.7	10.3%
11	Coweta-Urban land-Eram complex, 3 to 12 percent slopes	24.6	4.6%
17	Urban land-Dennis complex, 0 to 5 percent slopes	264.5	49.9%
25	Kamie-Urban land complex, 1 to 8 percent slopes	20.4	3.8%
27	Kiomatia loamy fine sand, 0 to 1 percent slopes, frequently flooded	7.0	1.3%
48	Radley silt loam, 0 to 1 percent slopes, frequently flooded	18.3	3.4%
NBRE	Niotaze-Bigheart-Rock outcrop complex, 3 to 15 percent slopes, very stony	59.4	11.2%
NBUF	Niotaze-Bigheart-Urban land complex, 3 to 25 percent slopes	48.7	9.2%
W	Water	33.0	6.2%
Totals for Area of Interest		**530.5**	**100.0%**

GARVER